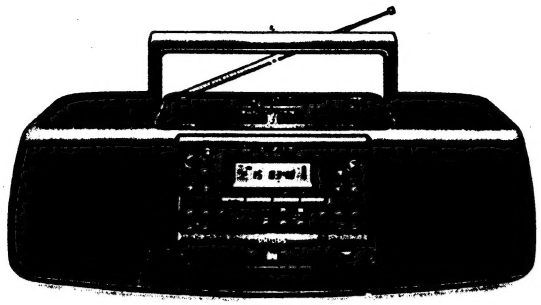
Compact Disc Stereo Radio Cassette Recorder AZ8640

/00/02/05

Service
Service
Service



Service Manual

COMPACT disc DIGITAL AUDIO

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CLASS 1 LASER PRODUCT

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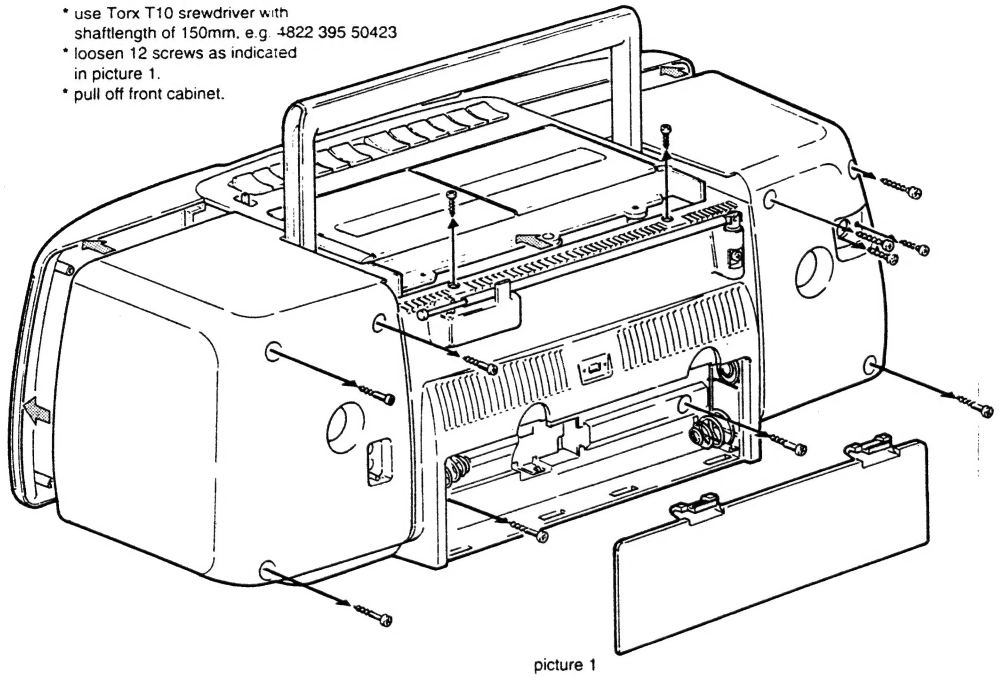
PHILIPS

CS 48 667

DISMANTLING INSTRUCTIONS

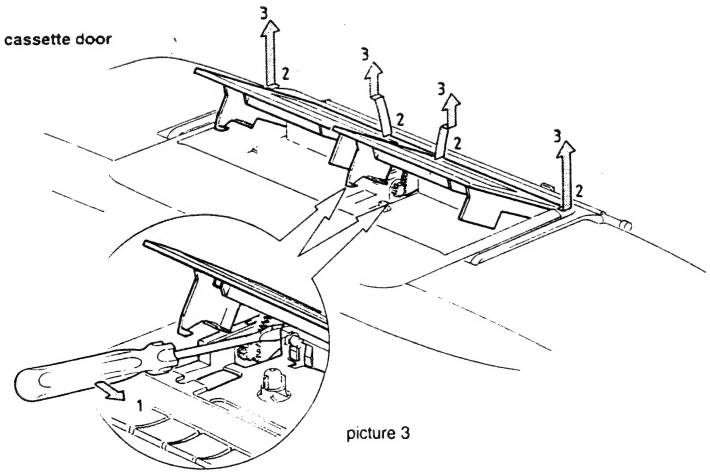
Removing the rear cabinet

* use Torx T10 srewdriver with shaftlength of 150mm, e.g. 4822 395 50423
* loosen 12 screws as indicated in picture 1.
* pull off front cabinet.



picture 1

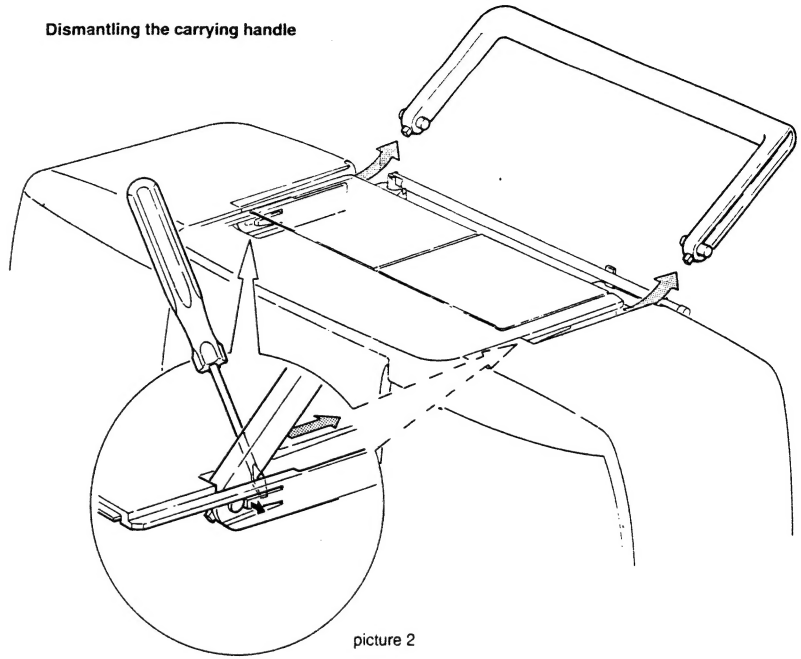
Dismantling the cassette door



picture 3

3 - 1

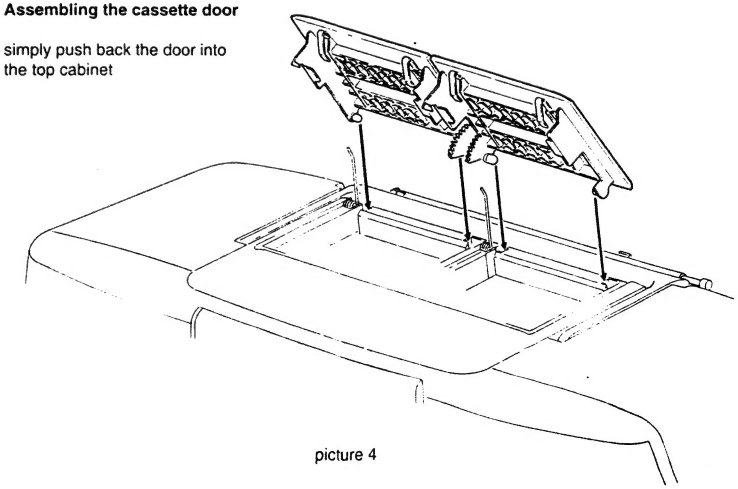
Dismantling the carrying handle



picture 2

Assembling the cassette door

simply push back the door into the top cabinet



picture 4

Dismantling hints CD Short Loader

Dismantling the tray

a) Press open/close button to open the tray. If the tray doesn't work, use a small screwdriver as shown in Fig.1 point 1 to move the tray outside. After the first centimetre it is possible to pull the tray out by hand.

b) Release two snaps and remove tray.

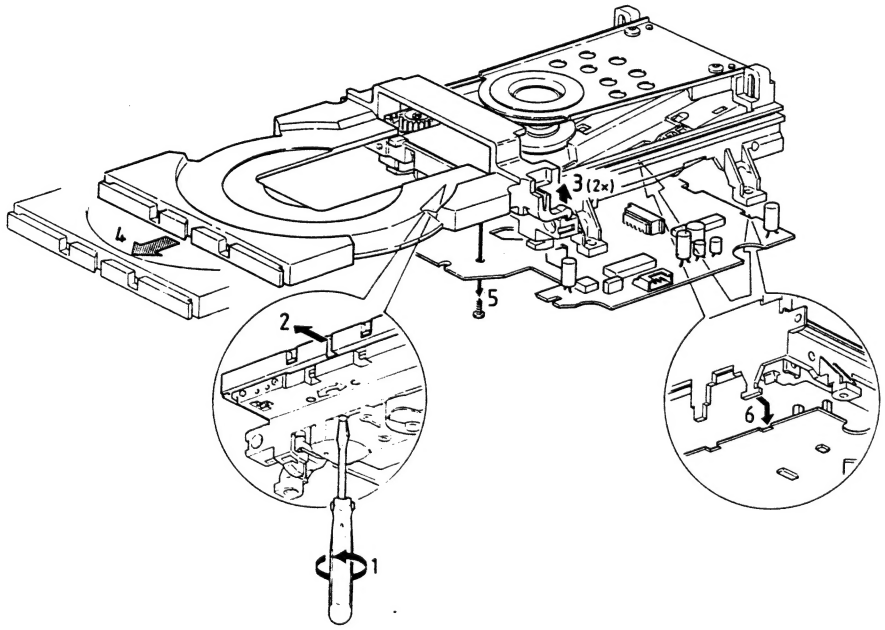


Fig. 1

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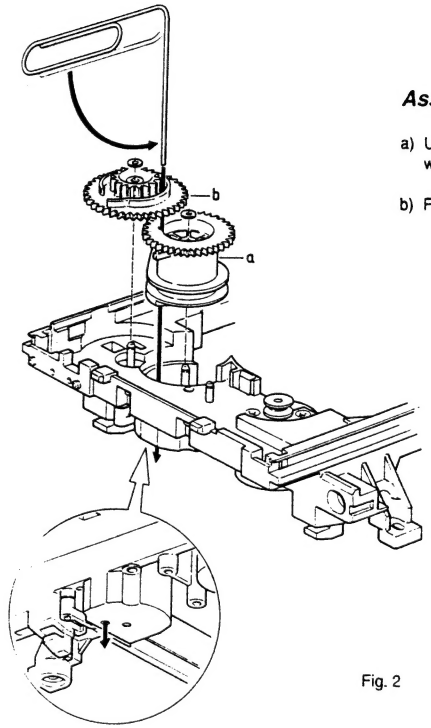


Assembly of gear

a) Use a pin (e.g. a paperclip) to align the cam wheel (a) withthe gear wheel (b). See Fig. 2.

b) Fix the wheels with the small plastic whashers.

Fig. 2

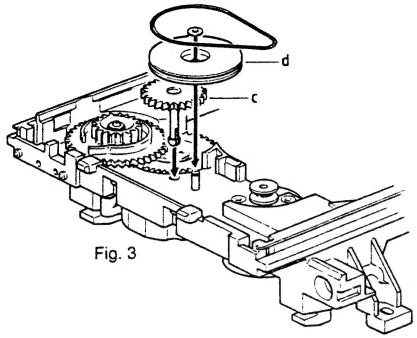


Fig. 3

c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.

d) Fix the idle wheel 1 (d) with the small plastic whasher.

e) Mount the driving belt.

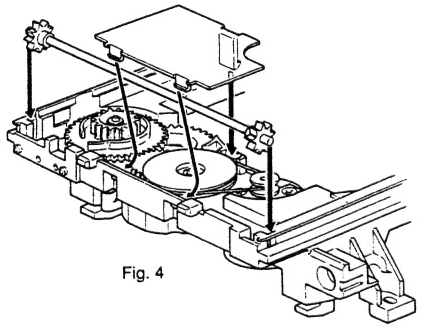


Fig. 4

f) Mount the pinion guiding assy and the cover as shown in Fig. 4.

g) Turn the gear wheel (b) counter clockwise to endposition.

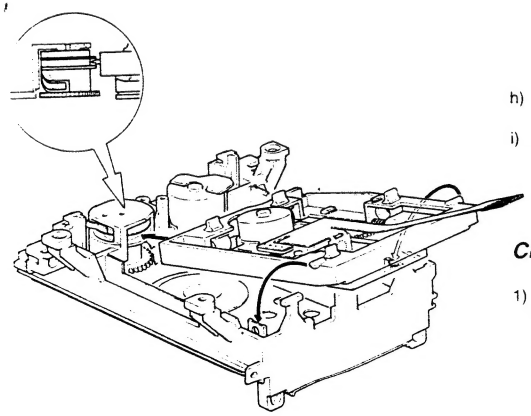


Fig. 5

h) Mount the CD Mechanism as shown in Fig. 5.

i) Mount the tray (Align the tray to the chassis and push it inside).

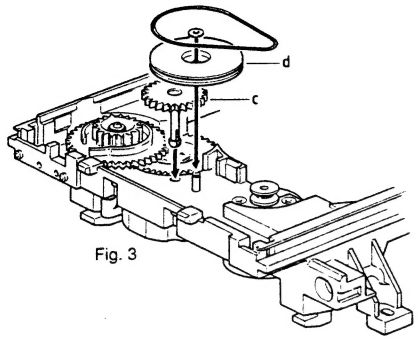
Check if tray mechanism works correctly!

1) Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

   The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

2) Turn the gear wheel (b) counter clockwise to its endposition.

   The CD Mechanism has to move to its lower position first and then the tray has to move outside.



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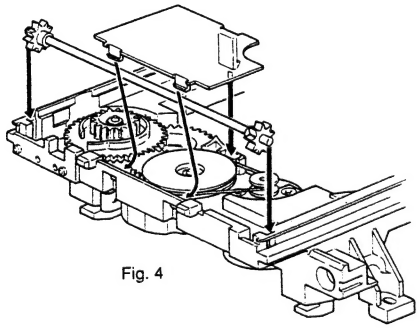

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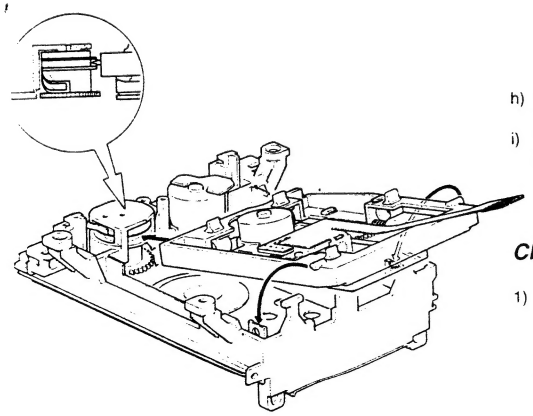

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   The CD Mechanism has to move to its lower position first and then the tray has to move outside.

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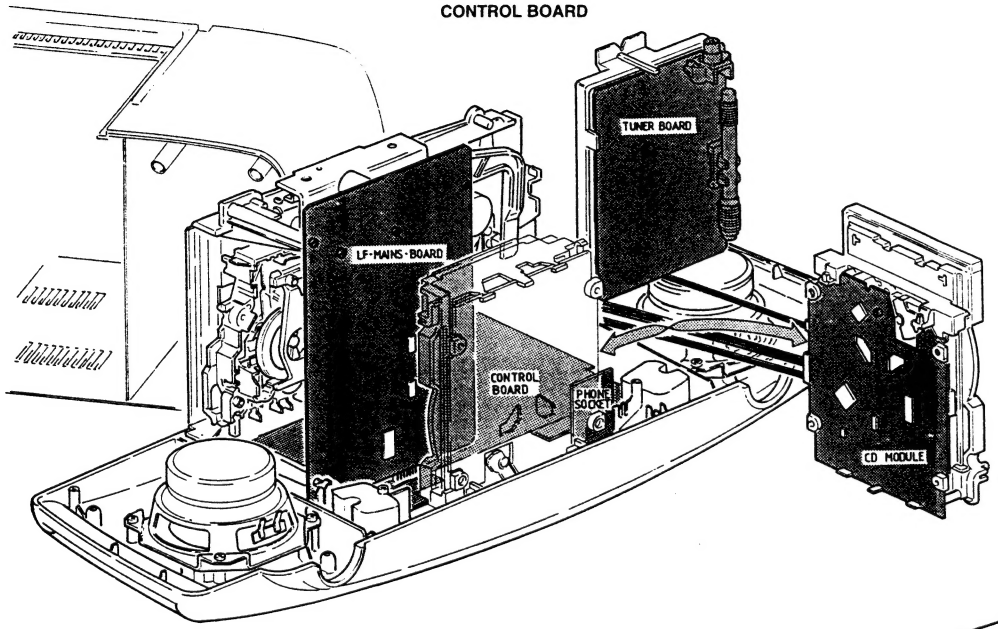
REPAIR POSITIONS

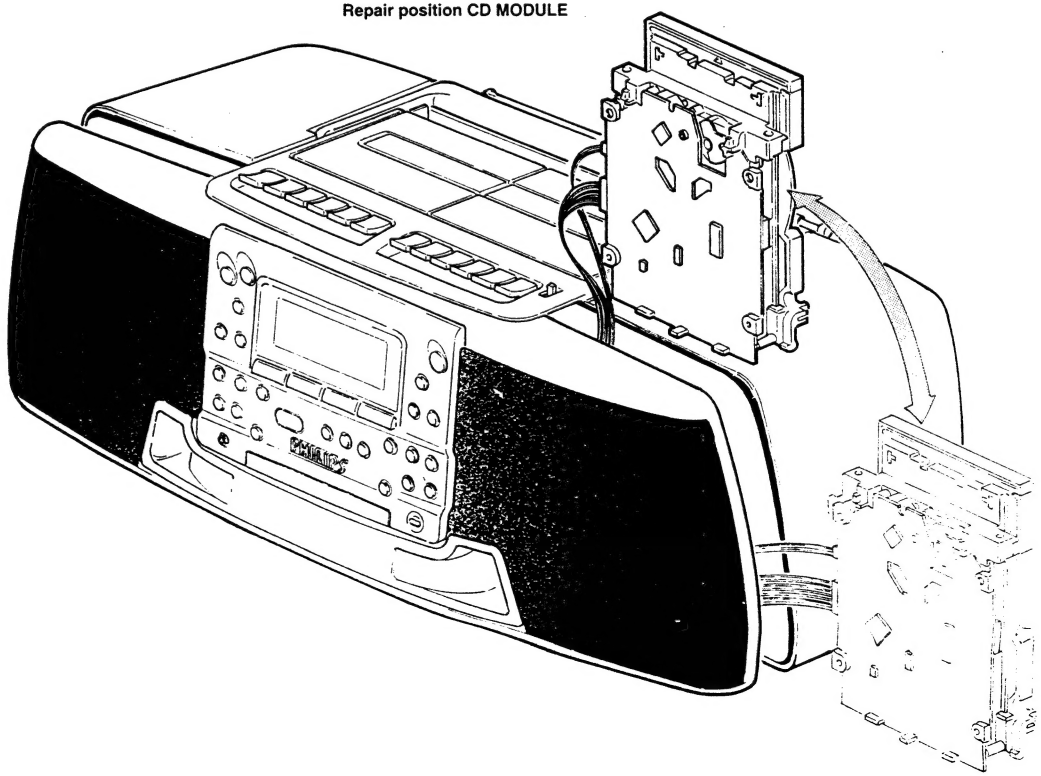
GENERAL repair position for: TUNER BOARD
LF-MAINS BOARD
CONTROL BOARD



Put CD module aside if necessary.

To get full access to Control Board respectively to the component side of LF-Mains Board, remove top cabinet with tape transports → loosen 3 screws of LF-Mains Board and 2 screws top cabinet-front cabinet first.
Then pull off top part while bending LF-Mains Board backwards (cooling fin!)

Repair position CD MODULE



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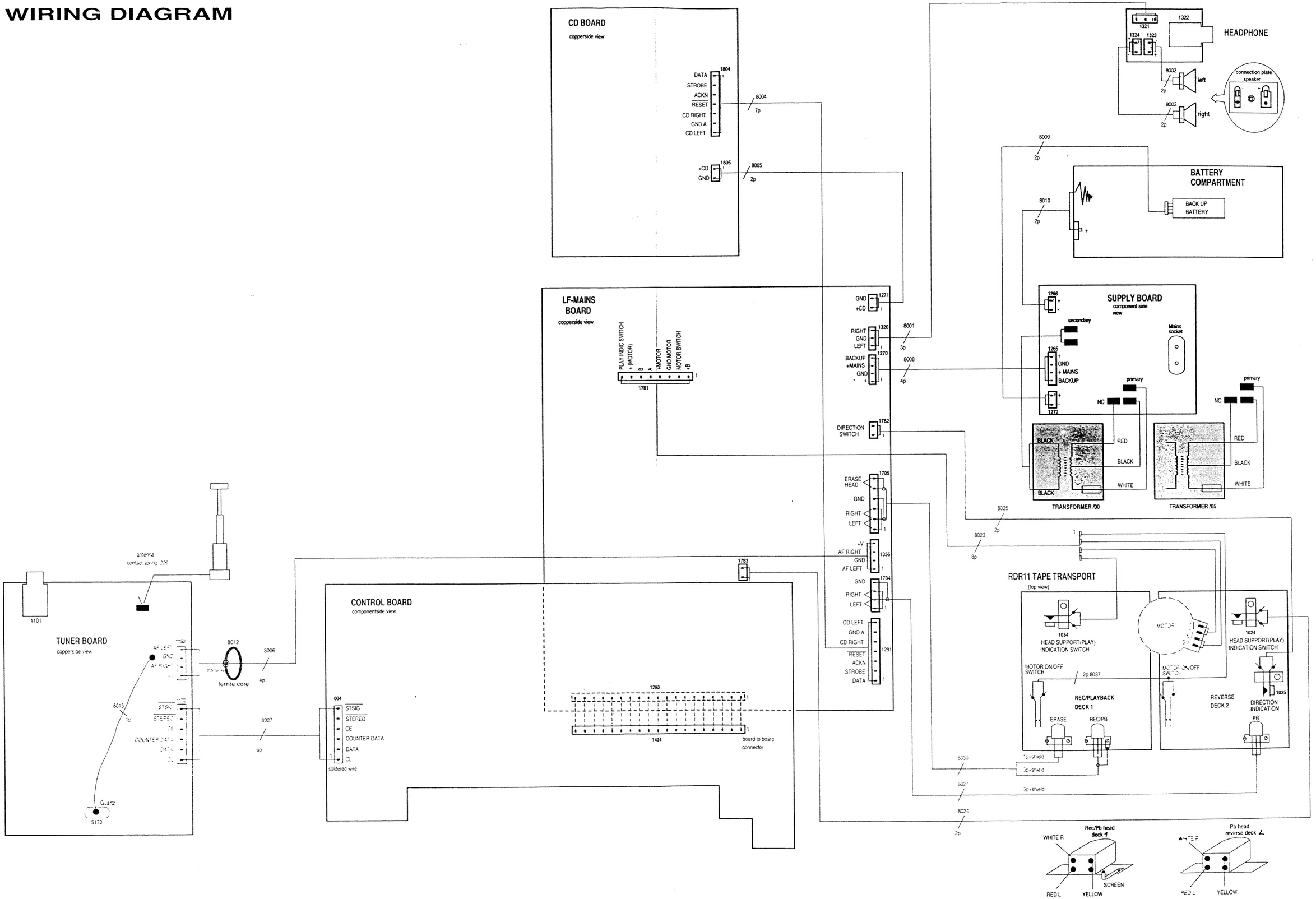
WIRING DIAGRAM



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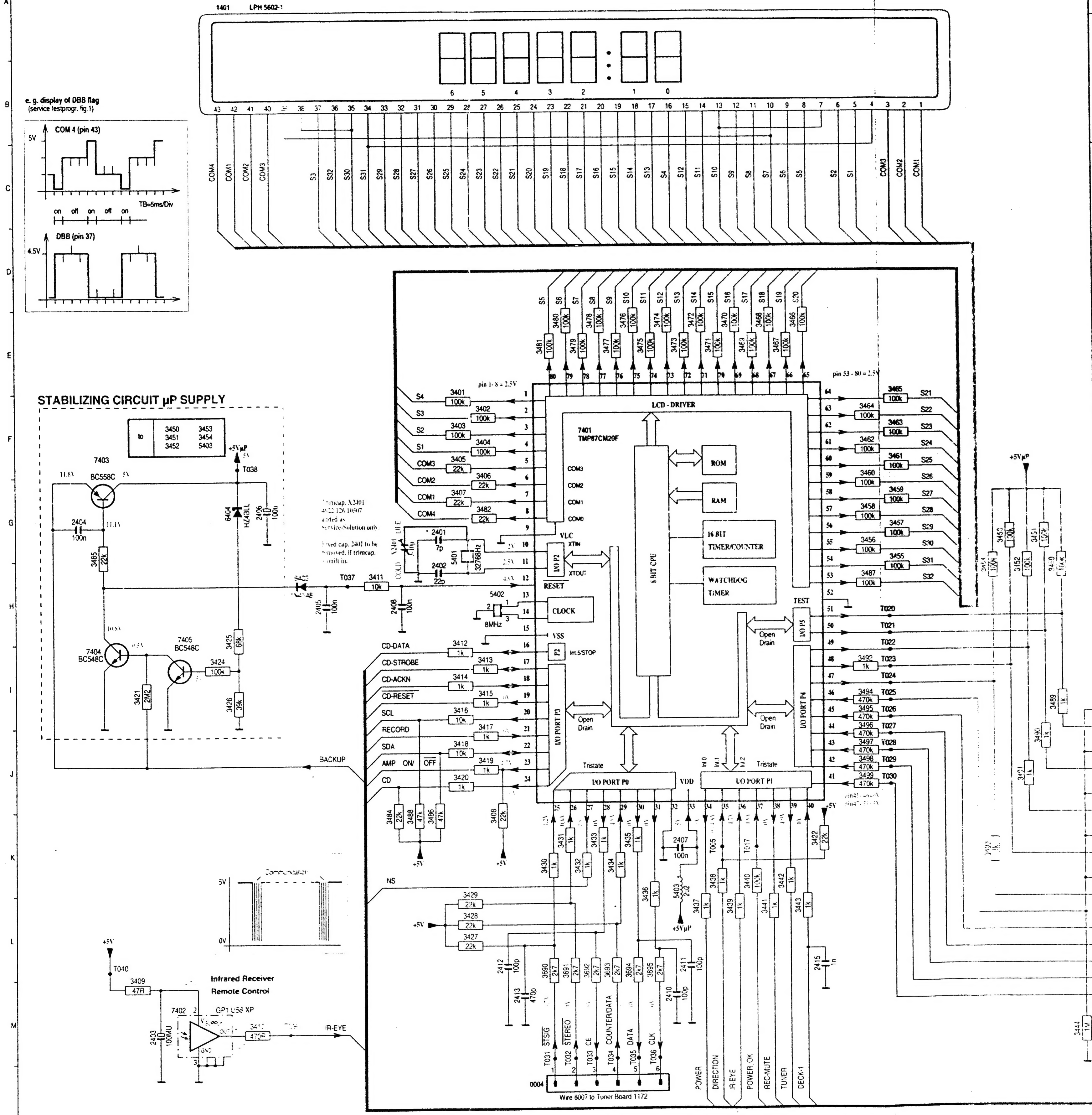
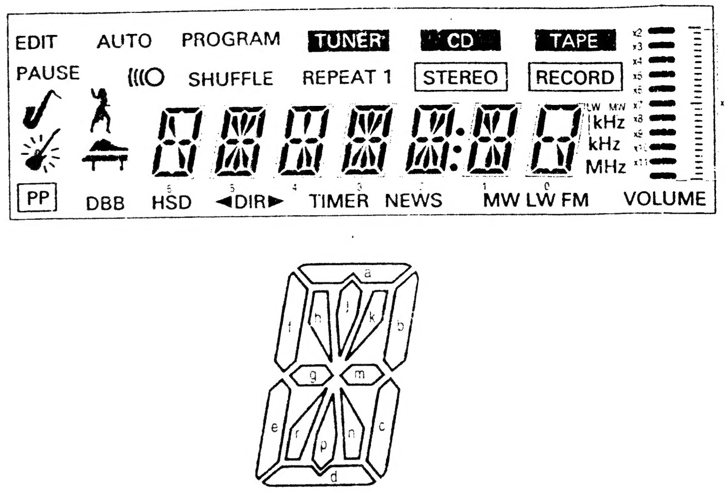
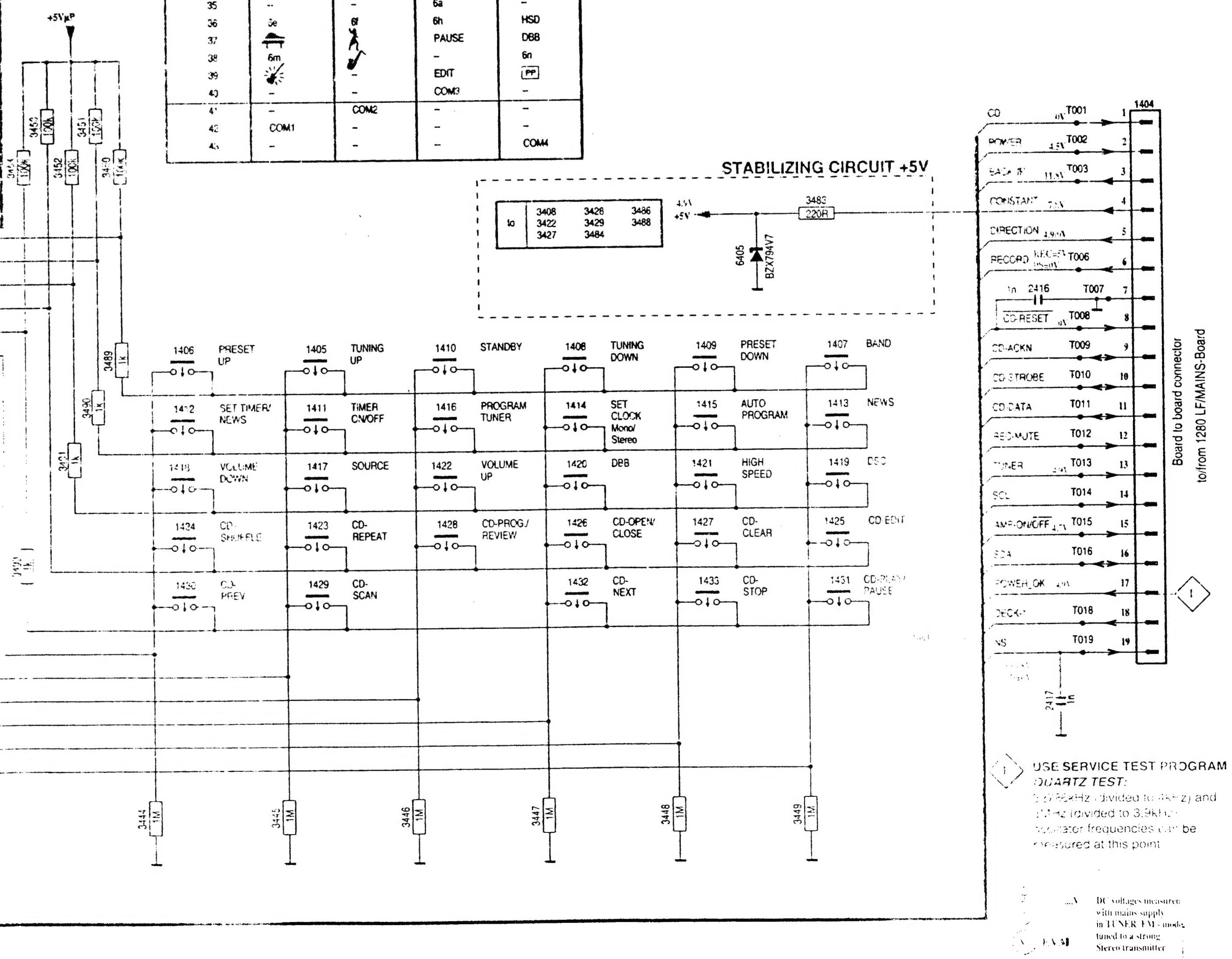
CONTROL BOARD



DISPLAY CONNECTION TABLE

PIN	COM 1	COM 2	COM 3	COM 4
1	COM1	–	–	–
2	–	COM2	–	–
3	–	–	COM3	–
4	VOLUME	–	–	–
5	X11	X10	X9	X1
6	X7	X6	X5	X8
7	–	X3	–	–
8	0c	0b	X2	0d
9	0m	0k	0a	0n
10	–	0g	–	–
11	0e	0f	RECORD	MW kHz
12	1c	1b	TAPE	1d
13	1m	–	1a	1n
14	X4	1g	1j	1p
15	1e	1f	1h	LW kHz
16	•	:	1	FM MHz
17	2c	2b	STEREO	2d
18	2m	2k	2a	2n
19	2r	2g	2j	2p
20	2e	2f	CD	NEWS
21	3c	3b	TUNER	3d
22	3m	3k	3a	3n
23	3r	3g	3j	3p
24	3e	3f	3h	TIMER
25	4c	4b	REPEAT	4d
26	4m	4k	4a	4n
27	►	4g	4j	4p
28	4e	4f	PROGRAM	DIR
29	5c	5b	SHUFFLE	5d
30	5m	5k	5a	5n
31	5r	5g	5j	5p
32	5e	5f	5h	◄
33	6c	6b	(((O	6d
34	–	6g	AUTO	–
35	–	–	6a	–
36	6e	6f	6h	HSD
37	[piano symbol]	[dancer symbol]	PAUSE	DBB
38	6m	[saxophone symbol]	–	6n
39	[guitar symbol]	–	EDIT	PP
40	–	–	COM3	–
41	–	COM2	–	–
42	COM1	–	–	–
43	–	–	–	COM4

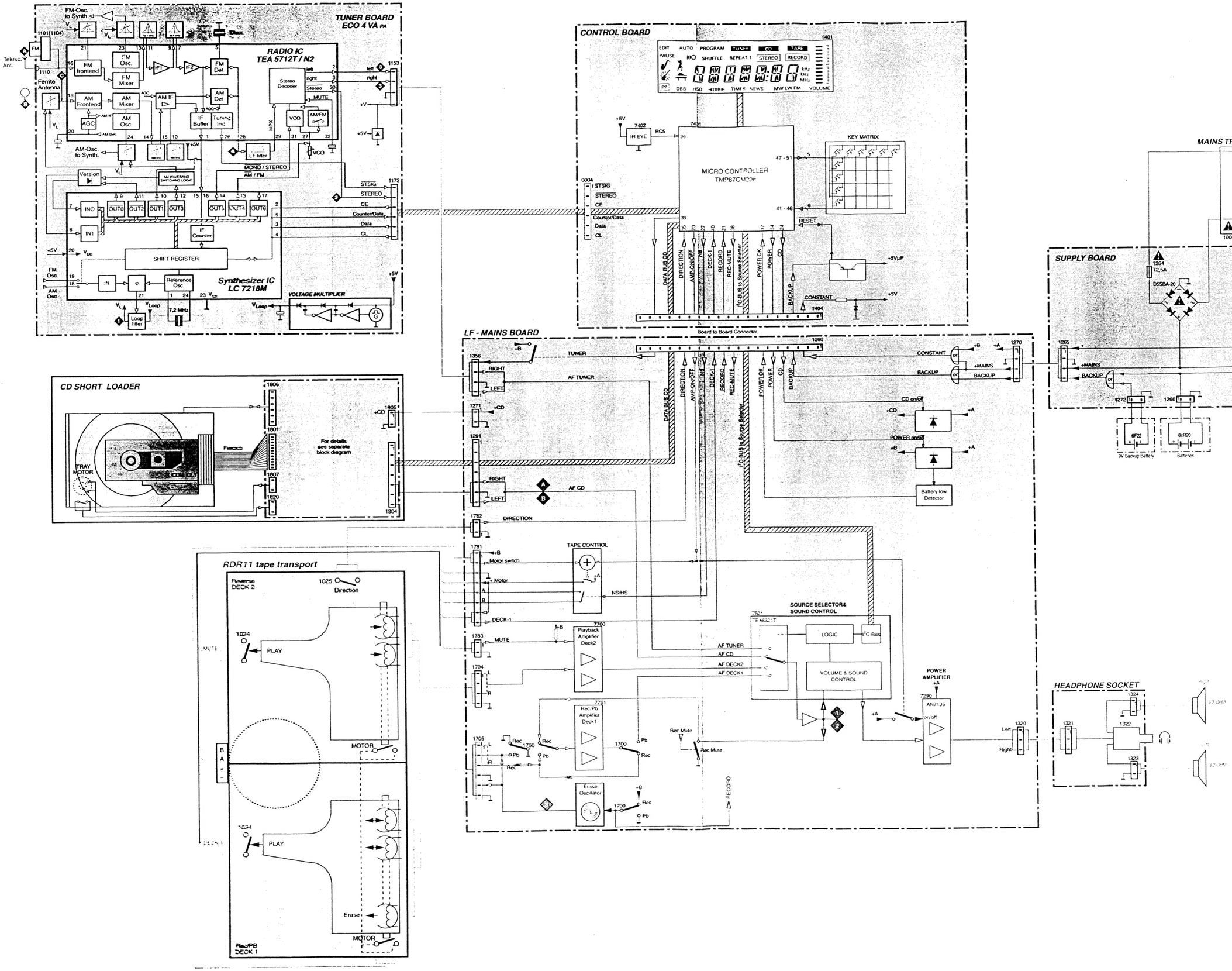




USE SERVICE TEST PROGRAM QUARTZ TEST:

0004 N 6	3420 J 5
1401 A 3	3421 I 2
1404 G21	3422 K10
1405 I14	3424 I 2
1406 I13	3425 H 3
1407 I19	3426 I 3
1408 I16	3427 L 5
1409 I17	3428 L 5
1410 I15	3429 L 5
1411 J14	3430 K 6
1412 J13	3431 K 7
1413 J19	3432 K 7
1414 J16	3433 K 7
1415 J17	3434 K 7
1416 J15	3435 K 7
1417 J14	3436 K 8
1418 J13	3437 L 8
1419 J19	3438 K 8
1420 J16	3439 L 9
1421 J17	3440 K 9
1422 J15	3441 L 9
1423 K14	3442 K 9
1424 K13	3443 L 9
1425 K19	3444 M13
1426 K16	3445 M14
1427 K17	3446 M15
1428 K15	3447 M16
1429 K14	3448 M17
1430 K13	3449 M18
1431 K19	3450 H12
1432 K16	3451 G12
1433 K17	3452 H12
2401 G 5	3453 G12
X2401 G 5	3454 H12
2402 H 5	3455 H11
2403 M 2	3456 G10
2404 G 1	3457 G11
2405 H 4	3458 G10
2406 G 3	3459 G11
2407 K 8	3460 G10
2408 H 5	3461 F11
2410 M 8	3462 F10
2411 L 8	3463 F11
2412 L 6	3464 F10
2413 M 6	3465 F11
2415 L10	3466 E 9
2416 I20	3467 E 9
2417 L20	3468 E 9
3401 F 5	3469 E 9
3402 F 6	3470 E 9
3403 F 5	3471 E 8
3404 F 6	3472 E 8
3405 F 5	3473 E 8
3406 G 6	3474 E 8
3407 G 5	3475 E 8
3408 K 6	3476 E 7
3409 M 2	3477 E 7
3410 M 3	3478 E 7
3411 H 4	3479 E 7
3412 I 5	3480 E 7
3413 I 6	3481 E 6
3414 I 5	3482 G 6
3415 I 6	3483 H18
3416 I 5	3484 K 5
3417 J 6	3485 G 1
3418 J 5	3486 K 5
3419 J 6	3487 H10
	3488 K 5
	3489 I12
	3490 J12
	3491 J12
	3492 I10
	3493 K12
	3494 I10
	3495 I10
	3496 J10
	3497 J10
	3498 J10
	3499 J10
	3690 L 6
	3691 L 7
	3692 L 7
	3693 L 7
	3694 L 7
	3695 L 8
	5401 G 5
	5402 H 6
	5403 K 8
	6403 H 3
	6404 G 3
	6405 H18
	7401 F 7

APPARATUS BLOCKDIAGRAM



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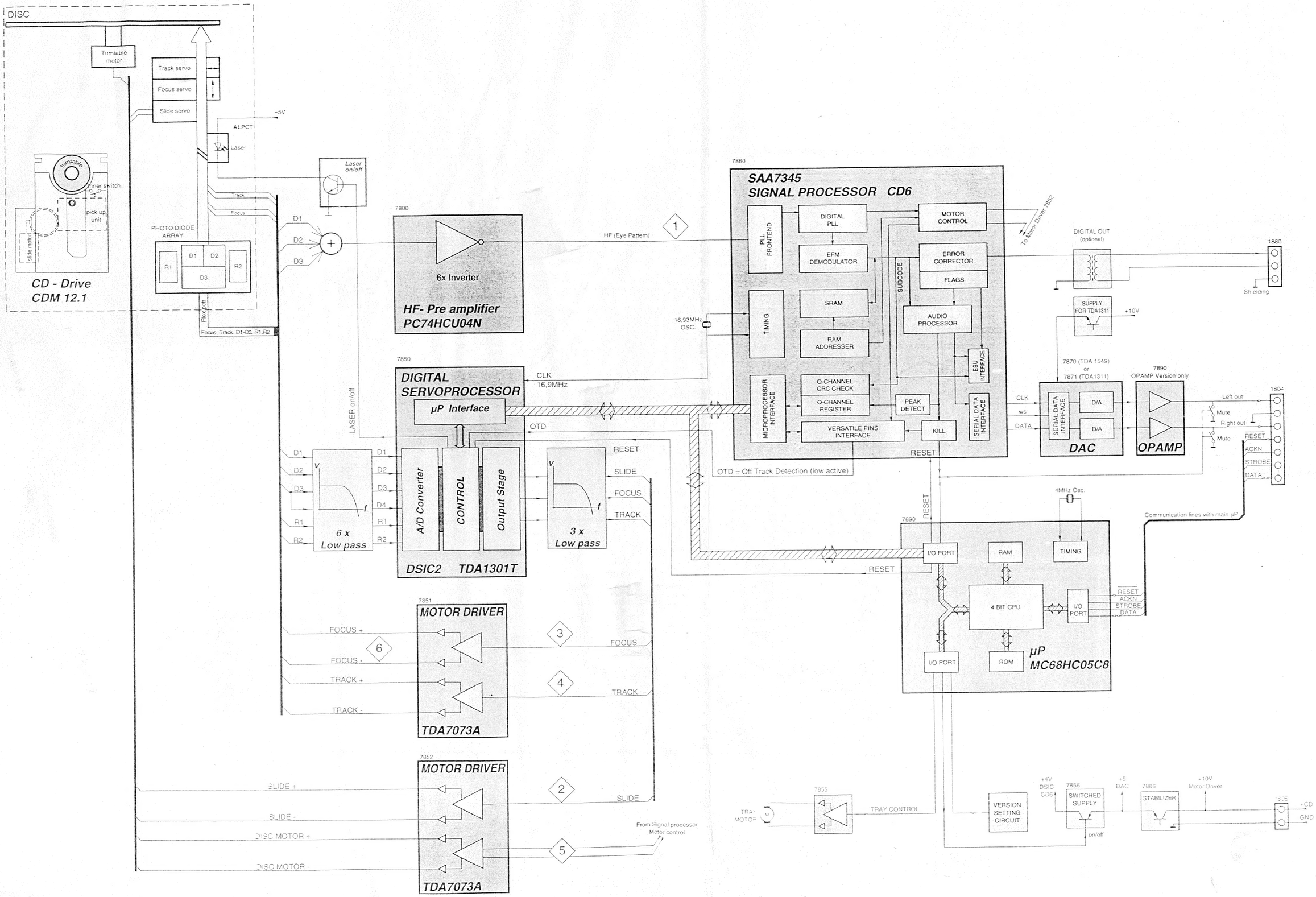
BLOCKDIAGRAM CD Module



DESCRIPTION OF *CONTROL- AND DATA LINES*

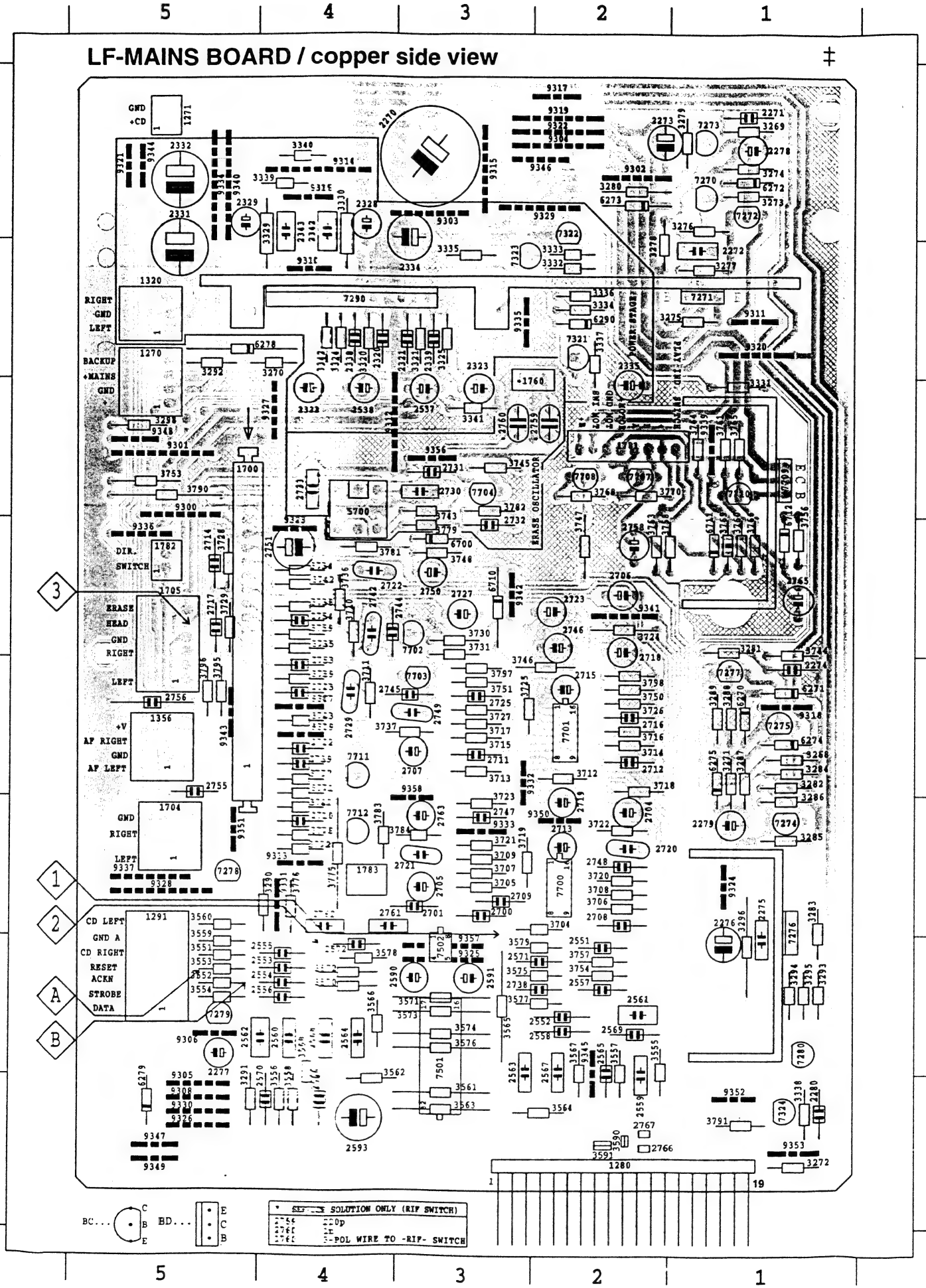
to/from LF/Mains-board

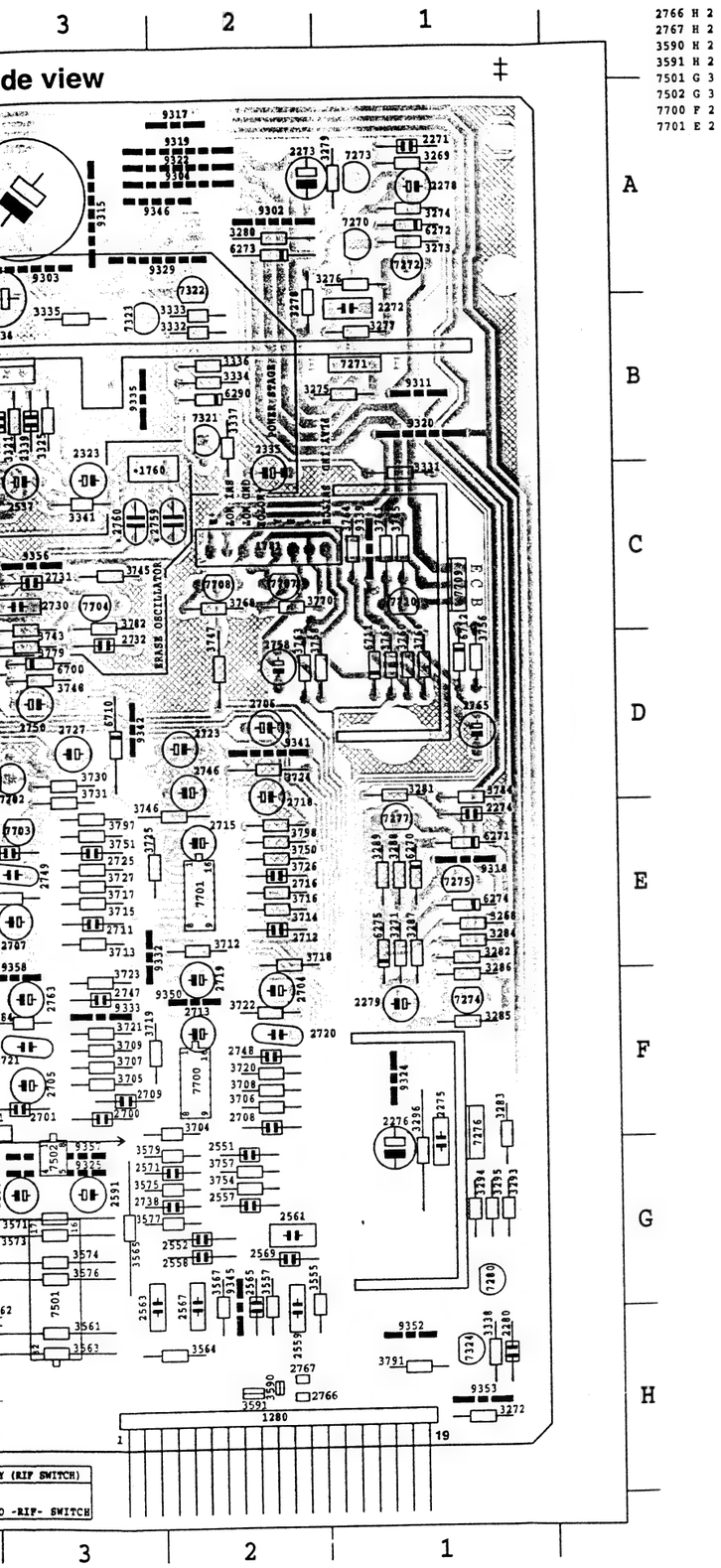
SIGNAL NAME	SIGNAL FLOW	EXPLANATION
AMP-ON/OFF	µP → power amp. & tape control	High level switches power amp. and tape control on.
BACKUP	supply → stabilizing circuit **µP supply**	Supply voltage for the µP, delivered either from mains, batteries or backup-battery.
CD	µP → stabilizing circuit **CD supply**	High level switches CD module on.
CD-RESET	µP → CD module	Low level resets the µP of the CD electronic.
CD-ACKN	µP ↔ CD module	Confirms data read which were sent via the data line of the serial **D**ata **S**trobe **A**cknowledge Bus.
CD-STROBE	µP ↔ CD module	Indicates available data to be read on the data line of the serial **D**ata **S**trobe **A**cknowledge Bus.
CD-DATA	µP ↔ CD module	Data line of the serial **D**ata **S**trobe **A**cknowledge Bus main µP ↔ CD µP.
CONSTANT	supply → IR EYE	Continuous supply for the IR EYE from mains -- enables the set to be waked up with remote control -- or switched supply **+B** from batteries -- the µP detects via the IR EYE pin low level in *STANDBY* and switches to slow mode in order to save batteries.
DECK-1	tape transp. deck 1 → µP	Indicates that deck 1 is in PLAY position.
DIRECTION	tape transp. deck 2 → µP	Indicates the actual direction of the reverse deck 2.
NS	µP → tape control	Switches the motor speed. High level = normal speed
POWER	µP → stabilizing circuit **+B**	High level switches stabilizing circuit **+B** and consequently the set on.
POWER-OK	battery low detector → µP	Indicates if power supply voltage **+A** is high enough to enable proper working of stabilizing circuit **+B**. In case of exhausted batteries this control line is switched to low level. The µP recognizes this and switches the set to *STANDBY*.
RECORD	Rec/Pb-switch → µP	High level indicates that recorder electronic is switched to REC mode.
REC-MUTE	µP → recorder electronic	High level mutes the signal to be recorded until 8ms after the REC mode was indicated to the µP. This in order to avoid "howling" while the motor accelerates to nominal speed.
TUNER	µP → tuner supply	High level switches the tuner supply and consequently the tuner on.
SDA, SCL	µP ↔ source selector IC	I^2C bus interface.

to/from Tuner board

CE	µP → synthesizer IC	Chip enable for dataline
CLK	µP → synthesizer IC	Clock-frequency for data transfer.
COUNTER/DATA	synthesizer IC → µP	Data line synthesizer IC to µP.
DATA	µP → synthesizer IC	Data line µP to synthesizer IC.
STEREO	radio IC → µP	Low level indicates a stereo transmitter.
STSIG	radio IC → µP	Low level indicates a strong transmitter found (STop SIGnal) during search mode.

LF - MAINS BOARD / layout stage .5





2766 H 2
2767 H 2
3590 H 2
3591 H 2
7501 G 3
7502 G 3
7700 F 2
7701 E 2

1270 C 5	2738 G 2	3578 G 4	7275 E 1
1271 A 5	2739 E 4	3579 G 2	7276 F 1
1280 H 2	2742 D 4	3702 F 4	7277 E 1
1291 G 5	2744 D 4	3703 E 4	7278 F 5
1320 B 5	2745 E 3	3704 F 2	7279 G 5
1356 E 5	2746 D 2	3705 F 3	7280 G 1
1700 C 5	2747 F 3	3706 F 2	7290 B 4
1704 F 5	2748 F 2	3707 F 3	7321 B 2
1705 D 5	2749 E 3	3708 F 2	7322 A 2
1760 C 3	2750 D 3	3709 F 3	7323 B 3
1781 C 2	2751 D 4	3710 D 4	7324 H 1
1782 D 5	2753 E 4	3711 E 4	7702 D 3
1783 F 4	2754 D 4	3712 E 2	7703 E 3
2270 A 3	2755 E 5	3713 E 3	7704 C 3
2271 A 1	2756 E 5	3714 E 2	7707 C 2
2272 B 1	2758 D 2	3715 E 3	7708 C 2
2273 A 2	2759 C 2	3716 E 2	7709 C 1
2274 E 1	2760 C 3	3717 E 3	7710 C 1
2275 G 1	2761 F 4	3718 E 2	7711 E 4
2276 G 1	2762 F 4	3719 F 3	7712 F 4
2277 G 5	2763 F 3	3720 F 2	9300 C 5
2278 A 1	2765 D 1	3721 F 3	9301 C 5
2279 F 1	3268 E 1	3722 F 2	9302 A 2
2280 H 1	3269 A 1	3723 F 3	9303 A 3
2320 B 4	3270 B 4	3724 D 2	9304 A 2
2321 B 3	3271 E 1	3725 E 3	9305 H 5
2322 C 4	3272 H 1	3726 E 2	9306 G 5
2323 C 3	3273 A 1	3727 E 3	9307 E 4
2328 A 4	3274 A 1	3728 D 5	9308 H 5
2329 A 5	3275 B 1	3729 D 5	9309 E 4
2331 B 5	3276 A 1	3730 D 3	9310 B 4
2332 A 5	3277 B 1	3731 D 3	9311 B 1
2334 A 3	3278 B 2	3734 D 4	9312 C 4
2335 C 2	3279 A 1	3735 D 4	9313 F 4
2338 B 4	3280 A 2	3736 D 4	9314 A 4
2339 B 3	3281 D 1	3737 E 3	9315 A 3
2340 H 4	3282 E 1	3738 D 4	9316 A 4
2341 H 4	3283 F 1	3739 E 4	9317 A 2
2342 A 4	3284 E 1	3742 D 4	9318 E 1
2343 A 4	3285 F 1	3743 C 3	9319 A 2
2537 C 3	3286 F 1	3744 D 1	9320 B 1
2538 C 4	3287 E 1	3745 C 3	9321 A 5
2551 G 2	3288 E 1	3746 E 2	9322 A 2
2552 G 2	3289 E 1	3747 D 2	9323 D 4
2553 G 4	3290 F 4	3748 D 3	9324 F 1
2554 G 4	3291 H 5	3750 E 2	9325 G 3
2555 G 4	3292 B 5	3751 E 3	9326 H 5
2556 G 4	3293 G 1	3753 C 5	9327 C 4
2557 G 2	3294 G 1	3754 G 2	9328 F 5
2558 G 2	3295 G 1	3756 D 1	9329 A 2
2559 G 2	3296 G 1	3757 G 2	9330 H 5
2560 G 4	3298 C 5	3758 D 1	9331 F 4
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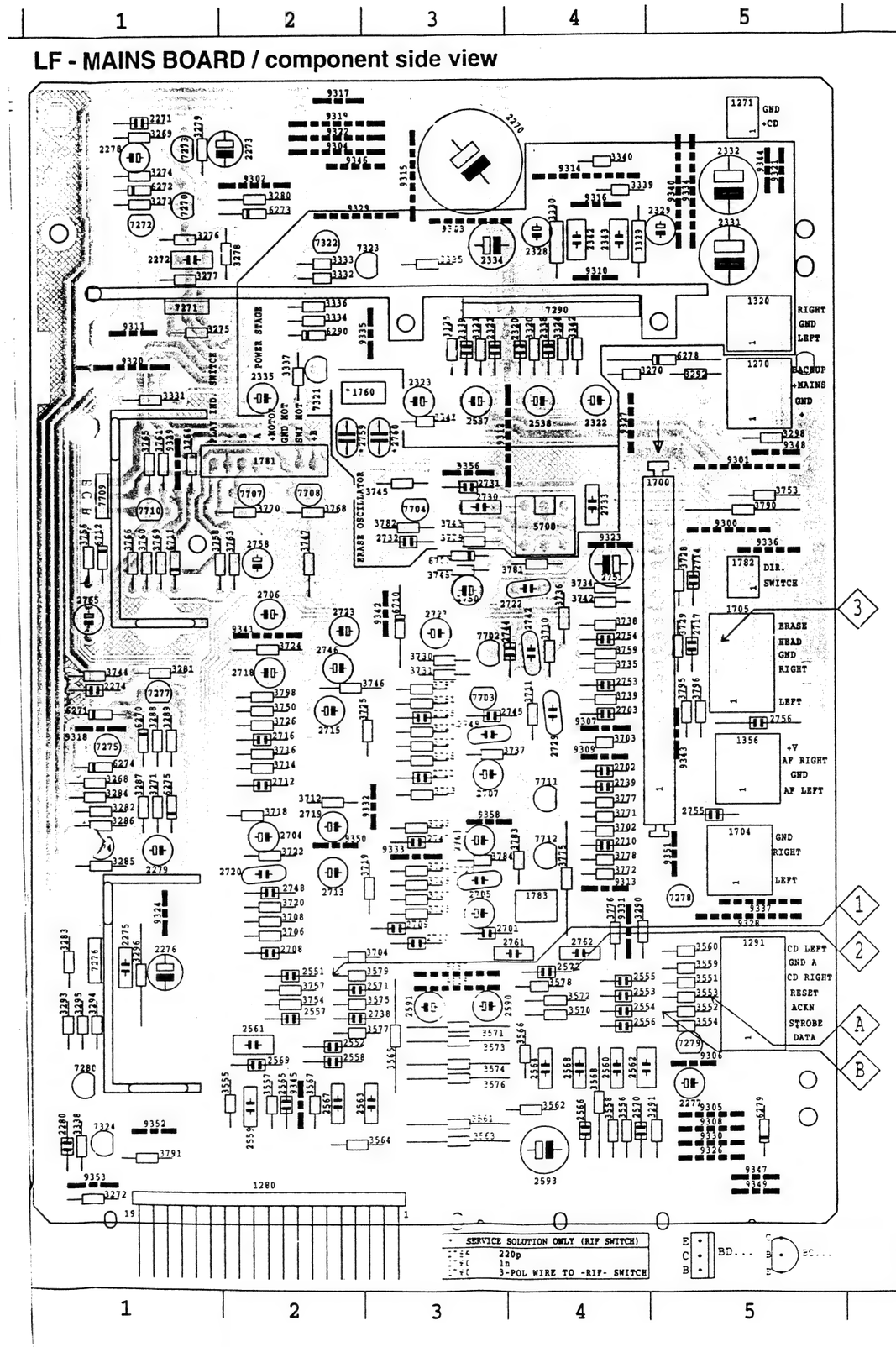
2569 G 2	3331 C 1	3769 D 1	9341 D 2
2570 H 4	3332 B 2	3770 C 2	9342 D 3
2571 G 2	3333 B 2	3771 E 4	9343 E 5
2572 G 4	3334 B 2	3772 F 4	9344 A 5
2590 G 3	3335 B 3	3775 F 4	9345 G 2
2591 G 3	3336 B 2	3776 F 4	9346 A 2
2593 H 4	3337 B 2	3777 E 4	9347 H 5
2700 F 3	3338 H 1	3778 F 4	9348 C 5
2701 F 3	3339 A 4	3779 D 3	9349 H 5
2702 E 4	3340 A 4	3781 D 4	9350 F 2
2703 E 4	3341 C 3	3782 C 3	9351 F 5
2704 F 2	3342 B 4	3783 F 4	9352 H 1
2705 F 3	3551 G 5	3784 F 3	9353 H 1
2706 D 2	3552 G 5	3790 C 5	9356 C 3
2707 E 3	3553 G 5	3791 H 1	9357 G 3
2708 F 2	3554 G 5	3795 E 5	9358 F 3
2709 F 3	3555 G 2	3796 E 5	
2710 F 4	3556 H 4	3797 E 3	
2711 E 3	3557 G 2	3798 E 2	
2712 E 2	3558 H 4	5700 C 4	
2713 F 2	3559 G 5	6270 E 1	
2714 D 5	3560 F 5	6271 E 1	
2715 E 2	3561 H 3	6272 A 1	
2716 E 2	3562 H 4	6273 A 2	
2717 D 5	3563 H 3	6274 E 1	
2718 D 2	3564 H 2	6275 E 1	
2719 F 2	3565 G 3	6278 B 5	
2720 F 2	3566 G 4	6279 H 5	
2721 F 3	3567 G 2	6290 B 2	
2722 D 4	3568 G 4	6700 D 3	
2723 D 2	3570 G 4	6710 D 3	
2725 E 3	3571 G 3	6711 D 1	
2727 D 3	3572 G 4	6712 D 1	
2729 E 4	3573 G 3	7270 A 1	
2730 C 3	3574 G 3	7271 B 1	
2731 C 3	3575 G 2	7272 A 1	
2732 D 3	3576 G 3	7273 A 1	
2733 C 4	3577 G 2	7274 F 1	

LF - MAINS BOARD / component side view



7 - 4

LF-MAINS BOARD

REVERSE DECK 2

RECORDER PART

Pb-AMPLIFIER LEFT

Mute Stop/Pause

TAPE CONTROL

TAPE TRANSPORT RDR 11

TUNER SUPPLY

STABILIZING CIRCUIT CD SUPPLY

STABILIZING CIRCUIT +B

Rec/Pb-AMPLIFIER LEFT

DECK 1 Rec/Pb

ERASE OSCILLATOR

RECORD MUTE Left channel

NS/HS-Equalization

SOURCE SELECTOR/ SOUND CONTROL

SWITCH ON/OFF AMPLIFIER

BATTERY LOW DETECTOR

Service Solution RIF Switch

Pb-AMPLIFIER RIGHT

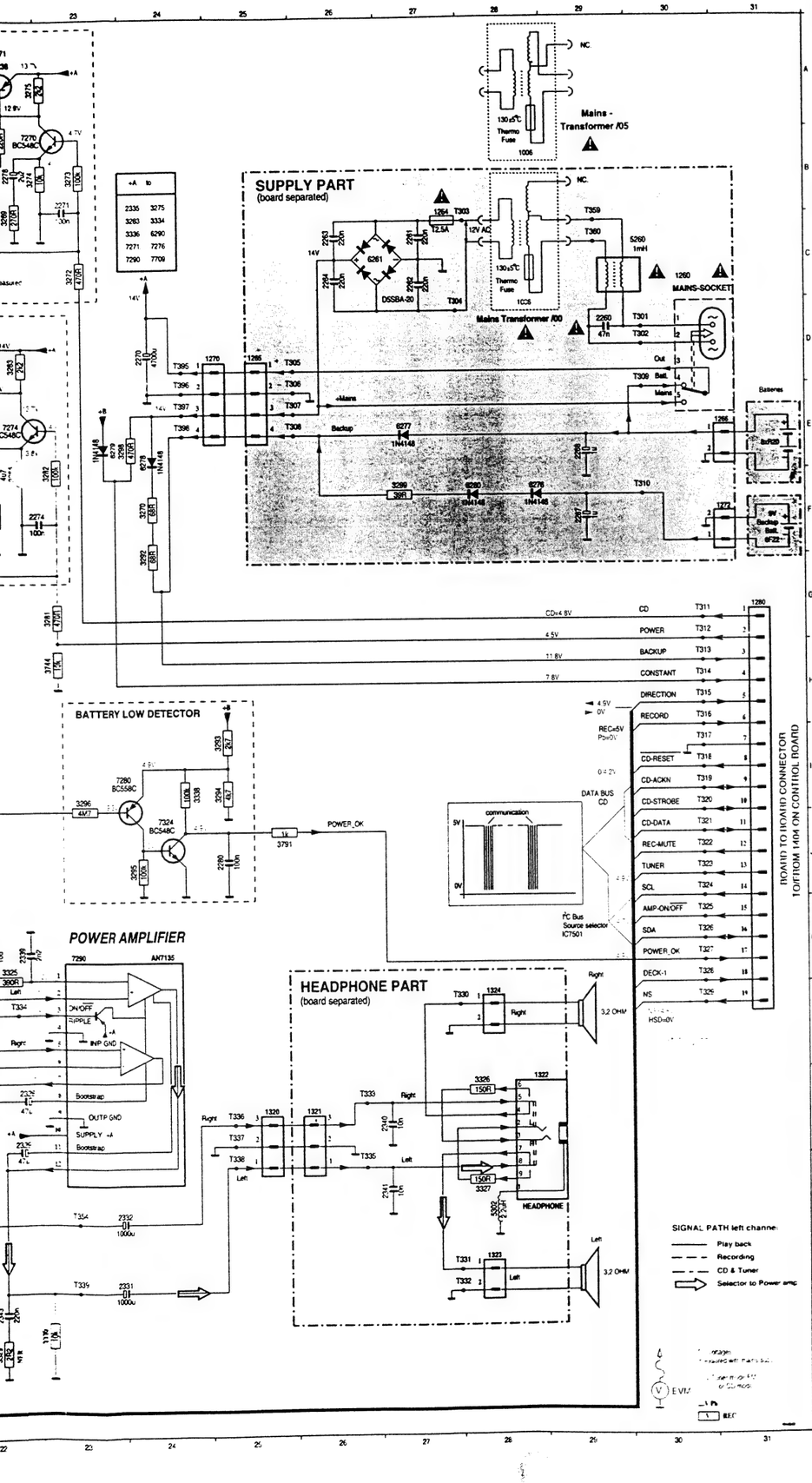
Rec/Pb-AMPLIFIER RIGHT

RECORD MUTE Right channel

RECORD INDICATION

REC-MUTE

POWER AMPLIFIER



1280 C30
1284 C27
1285 D25
1286 E31
1370 D24
1271 A19
1272 F30
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1291 O14
1320 M25
1321 M26
1322 M28
1323 O28
1324 L28
1356 A15
1700 M 3
1700 D 3
1700 G 4
1700 D 6
1700 M 6
1700 G 5
1704 A 2
1705 F 2
1760 I 2
1781 C13
1782 C13
1783 A13
2260 D29
2261 C27
2262 C27
2263 C26
2264 C26
2267 F29
2268 E29
2270 D24
2271 B23
2272 A22
2273 B20
2274 F23
2275 D21
2276 E20
2277 C17
2278 B22
2279 E22
2280 J25
2320 M20
2321 H21
2322 M20
2323 K22
2328 M22
2329 M22
2331 O23
2332 N23
2334 K21
2335 J19
2338 M21
2339 K22
2340 M27
2341 N27
2342 N21
2343 O22
2537 H20
2538 L19
2551 G13
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2701 A 5
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2703 D 4
2704 K 6
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2706 O 4
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2721 B 6
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2727 D 6
2729 E 7
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2738 H14
2739 C 3
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2749 F 8
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6272 C22
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6275 D20
6276 F26
6277 E27
6278 E24
6279 E23
6280 F28
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6712 B10
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7272 B21
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7277 E20
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7711 F10
7712 M10

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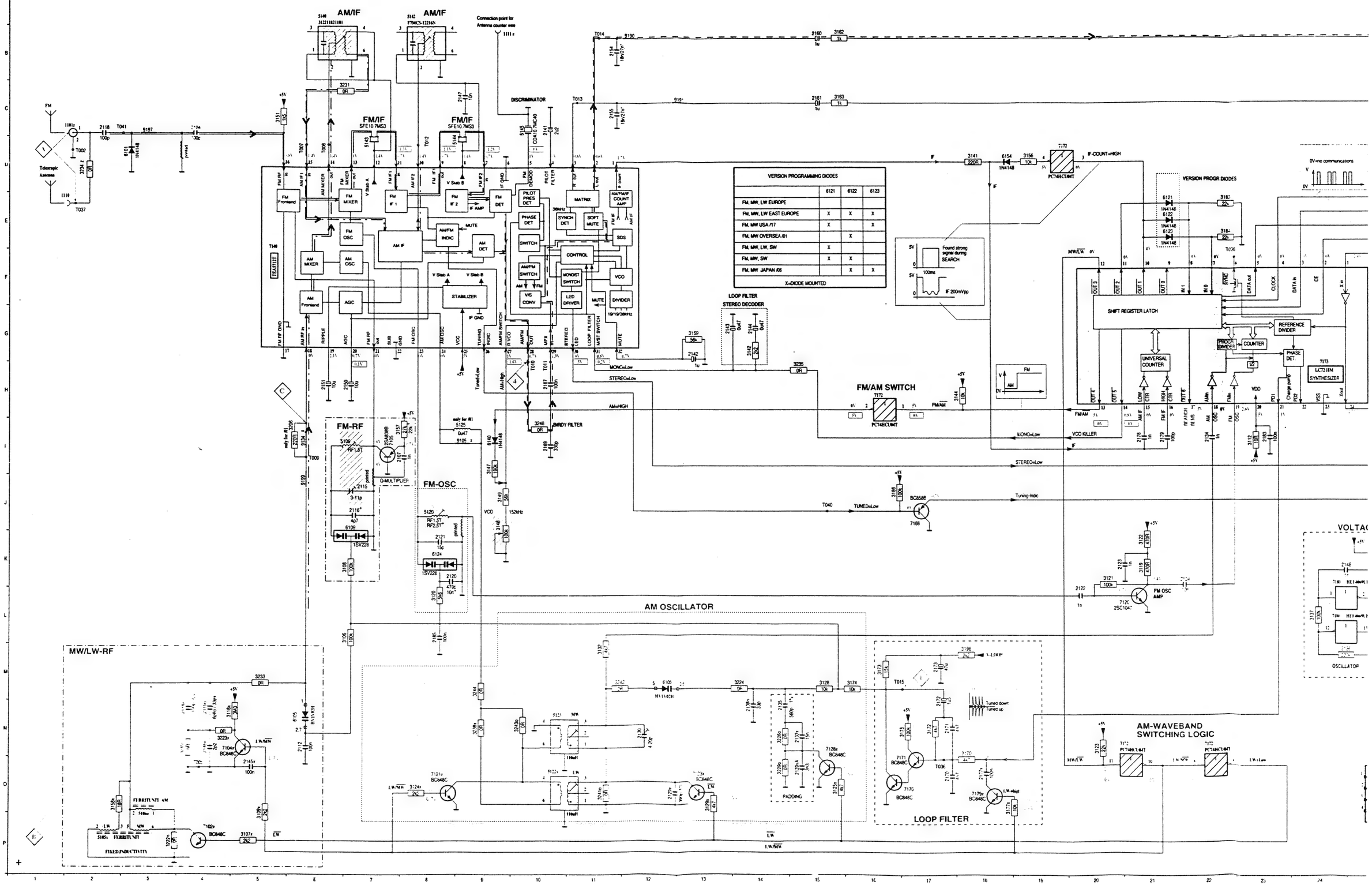
TUNER UNIT ECO4-VA (PA)



48 690

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J2	1806	O2	2752	C21	2764	G19	2803	C3	2807	C6	2811	C5	2821	H6	2825	H8	2829	H10	2834	J10	2839	L13	2848	A16	2852	G18	2857	E16	2861	G17	2867	A24	2879	B31	2889	A14	2893	O30	3750	E16	3755	H13
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F32	1820	J30	2762	G19	2770	D26	2805	D3	2809	D9	2818	I4	2823	H6	2827	H9	2831	H14	2837	K12	2843	M12	2850	J14	2854	F32	2859	F16	2864	A25	2877	B29	2883	G30	2891	H27	2895	O30	3752	C20	3761	O20
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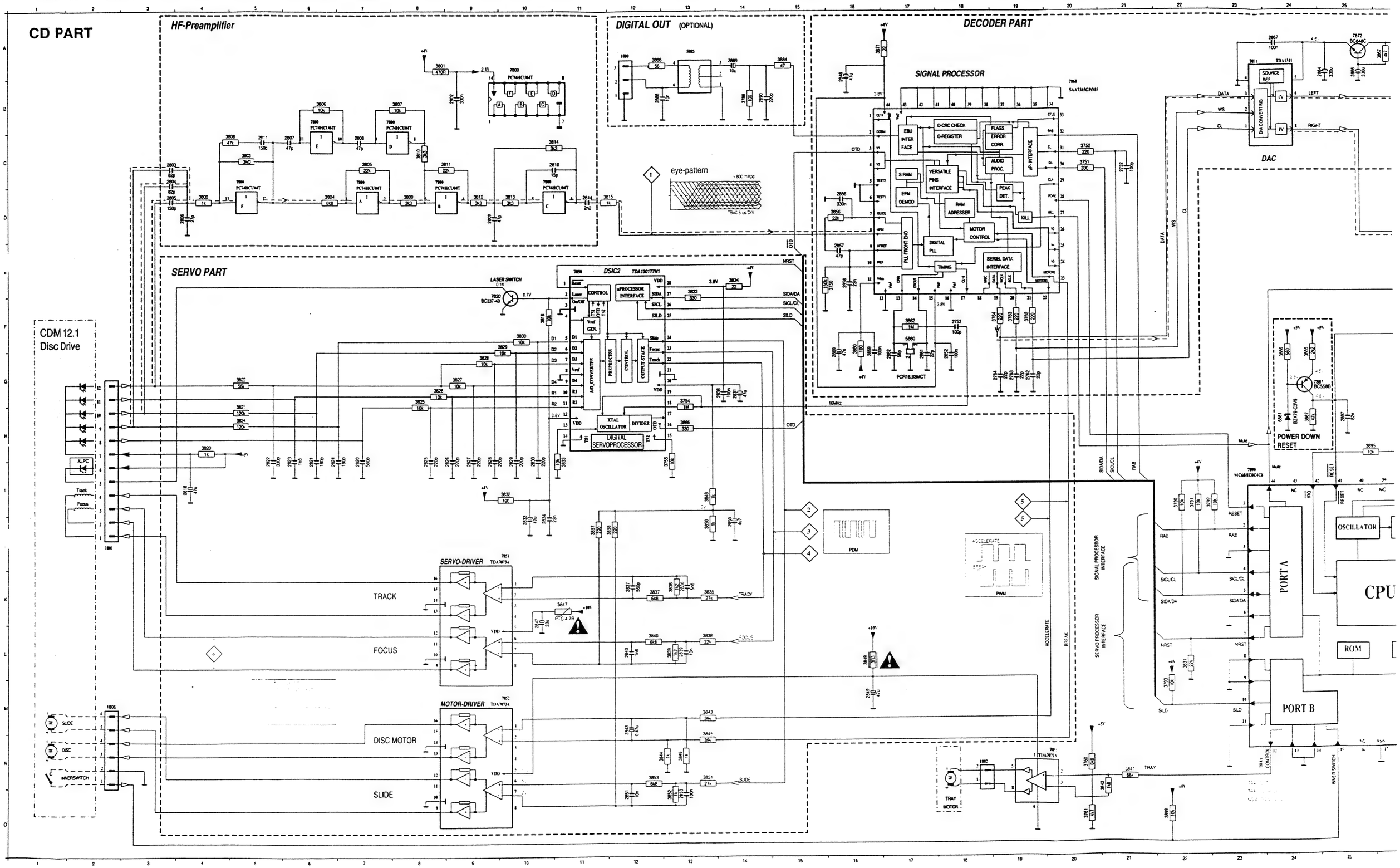

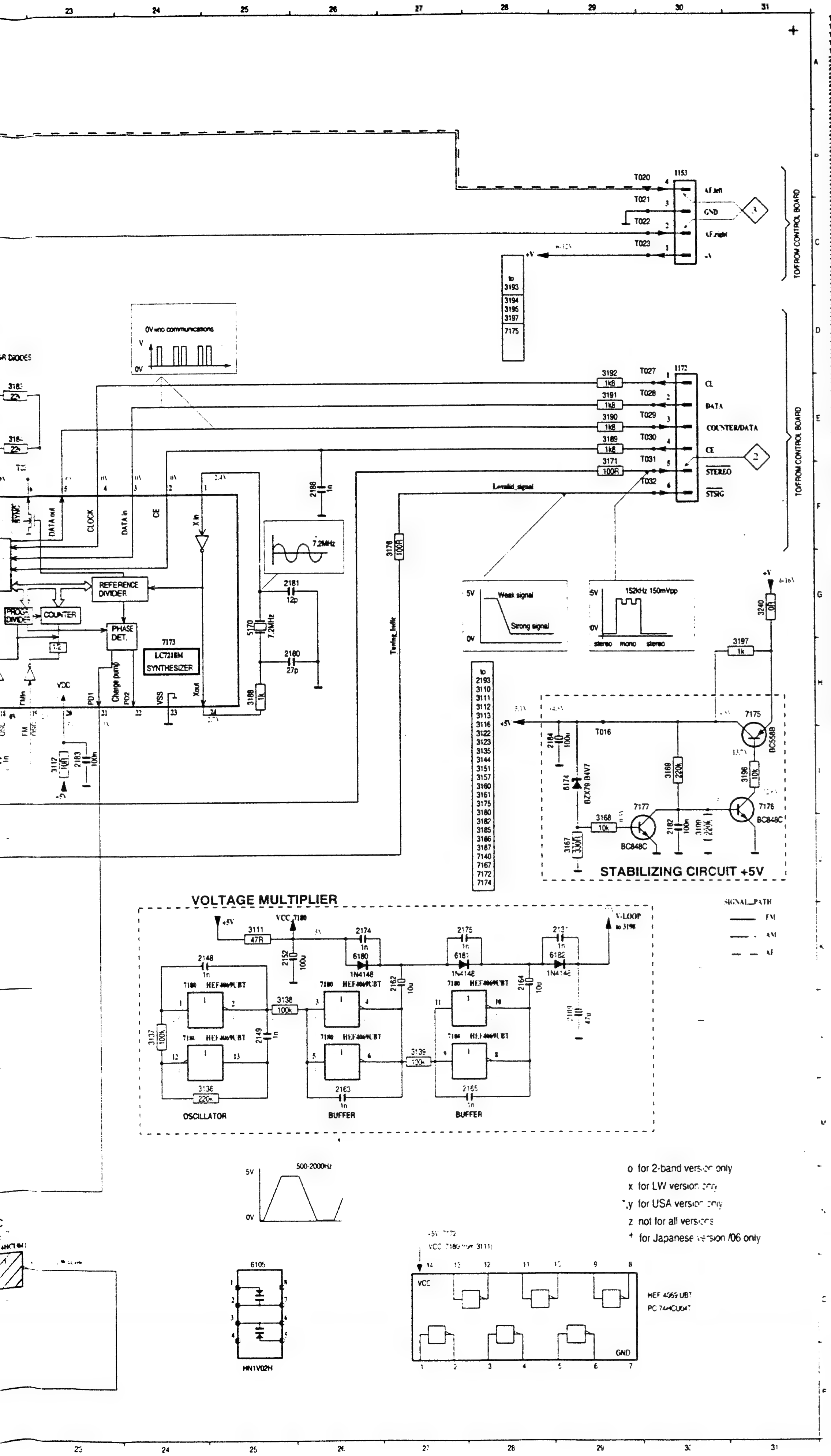

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2116 J 7
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2129x O12
2130 N12
2131 K29
2133x N15
2134 I22
2135 N14
2138o N14
2139x O15
2141 C10
2142 G13
2143 G13
2144 G14
2145x O 5
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2149 L25
2150 H 7
2151 H 6
2152 K25
2154 C11
2155 C12
2160 B15
2161 C15
2162 K27
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2164 K28
2165 M28
2167 H10
2169 I10
2170 O17
2171 N17
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2173 M17
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2179 I21
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T029 E30
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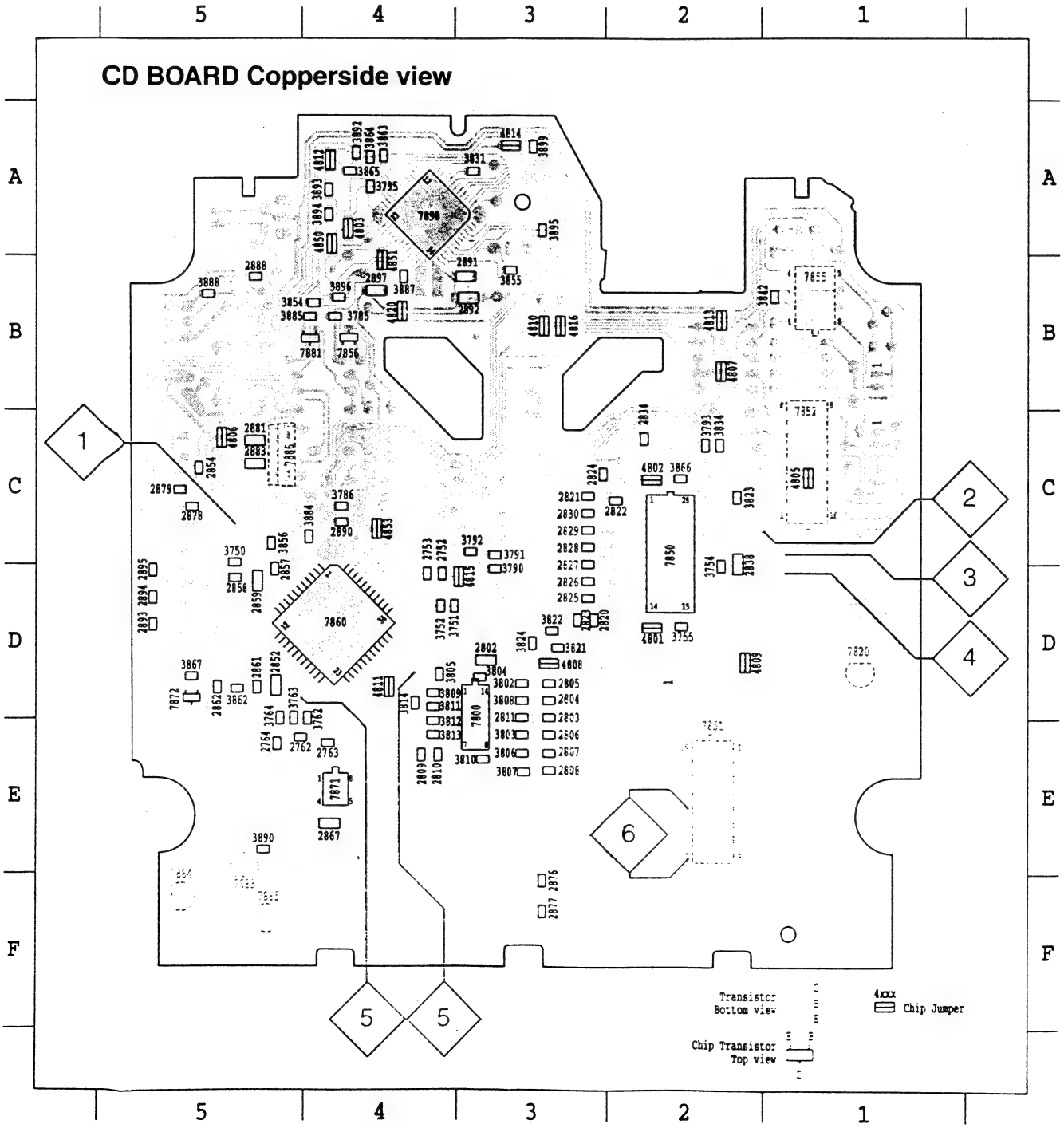
T032 F30
T036 O17
T037 E 2
T038 F22
T040 J13
T041 C 2

CD Board layout stage .8

MP1 C 5	2806 E 3	2823 D 3	2852 D 5	2879 C 5	2895 D 5	3764 D 5	3803 E 3	3813 E 4	3855 B 3	3885 B 4	3899 A 3	4811 D 4	7800 D 3
2752 D 4	2807 E 3	2825 D 3	2854 C 5	2881 C 5	2897 B 4	3785 B 4	3804 D 3	3814 D 4	3856 C 5	3887 B 4	4801 D 2	4812 A 4	7850 C 2
2753 D 4	2808 E 3	2826 D 3	2857 D 5	2883 C 5	3750 C 5	3790 D 3	3805 D 4	3821 D 3	3862 D 5	3888 B 5	4802 C 2	4813 B 2	7856 B 4
2762 E 5	2809 E 4	2827 D 3	2858 D 5	2888 B 5	3751 D 4	3791 C 3	3806 E 3	3822 D 3	3863 A 4	3892 A 4	4803 A 4	4814 A 3	7860 D 4
2763 E 4	2810 E 4	2828 C 3	2861 D 5	2890 C 4	3752 D 4	3792 C 3	3807 E 3	3823 C 2	3864 A 4	3893 A 4	4805 C 1	4815 D 3	7880 F 2
2764 E 5	2811 D 3	2829 C 3	2862 D 5	2891 B 3	3754 D 2	3793 C 2	3809 D 4	3824 D 3	3865 A 4	3894 A 4	4806 C 5	4816 B 3	7871 E 4
2802 D 3	2820 D 3	2830 C 3	2876 F 3	2892 B 3	3755 D 2	3794 B 4	3810 E 3	3831 A 3	3866 C 2	3895 A 3	4808 D 3	4820 B 4	7872 D 5
2804 D 3	2821 C 3	2834 C 2	2877 F 3	2893 D 5	3762 D 4	3795 A 4	3811 D 4	3834 C 2	3867 D 5	3896 B 4	4809 D 2	4850 A 4	7881 B 4
2805 D 3	2822 C 2	2838 C 2	2878 C 5	2894 D 5	3763 D 5	3802 D 3	3812 E 4	3854 B 4	3884 C 4	3897 B 4	4810 B 3	4851 B 4	7890 A 4

CD BOARD Copperside view



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0	3752	C20	3761	O20	3767	A29	3790	I22	3794	L29	3803	C5	3807	B8	3811	C9	3815	D12	3822	G5
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																			3825	G8
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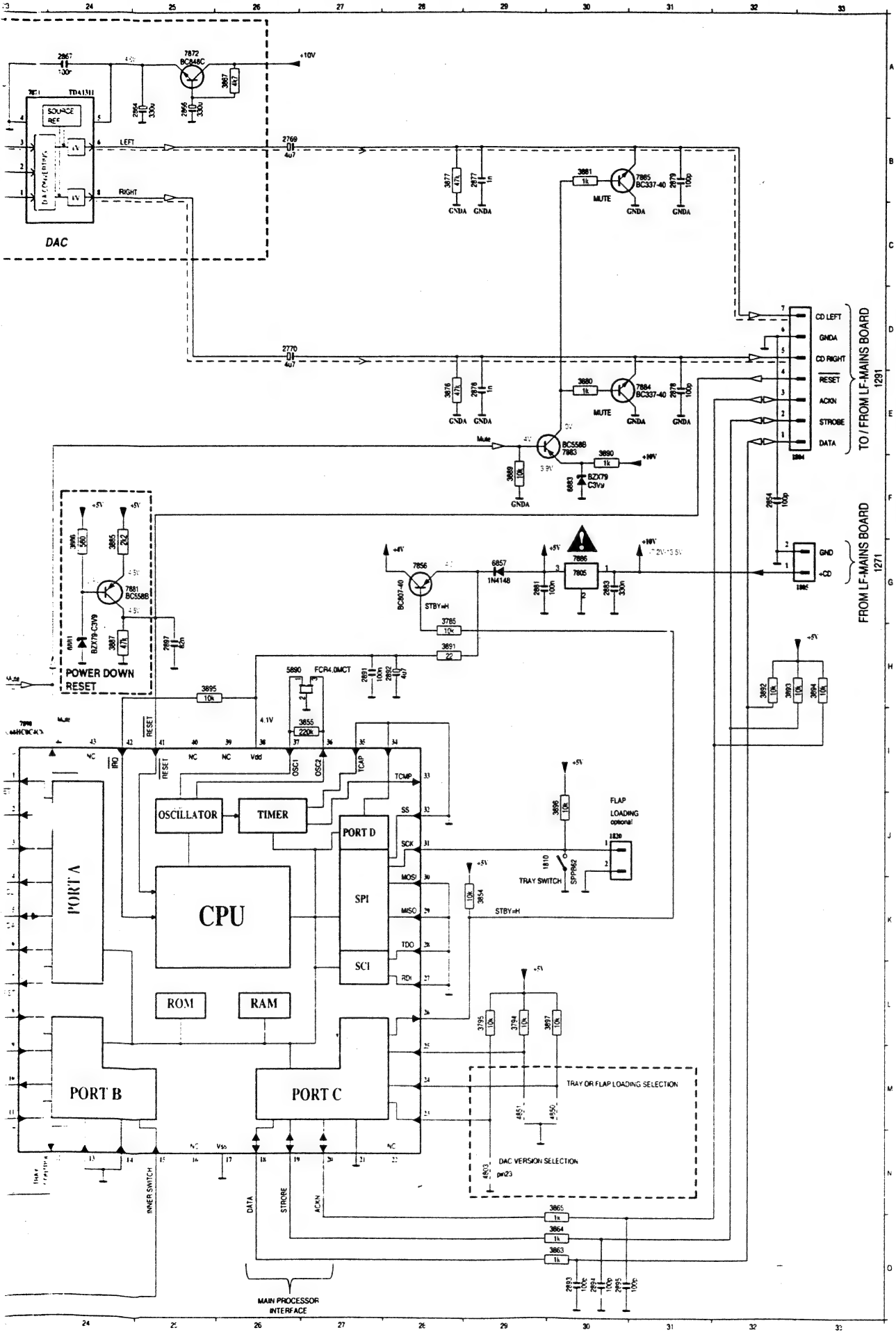

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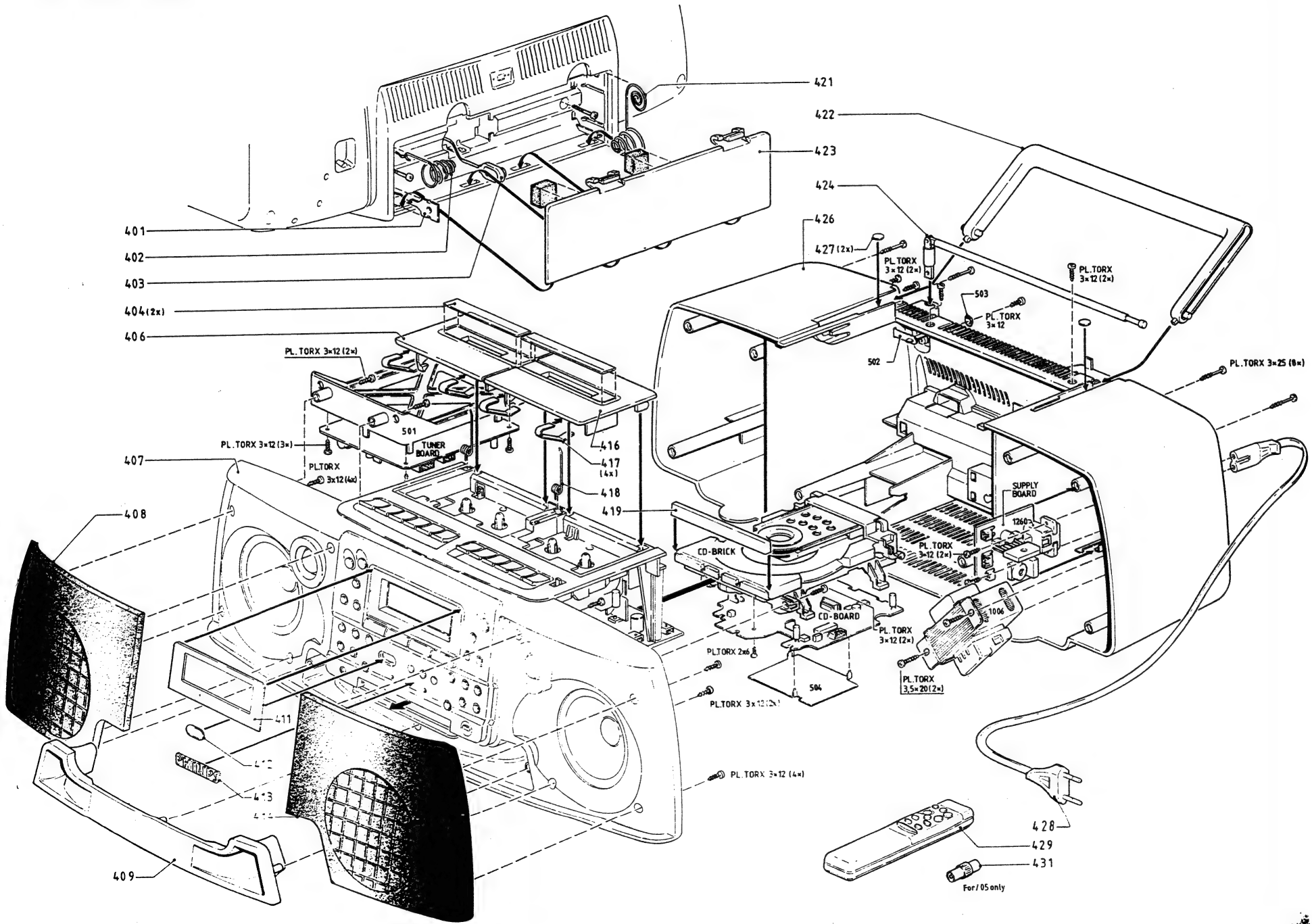
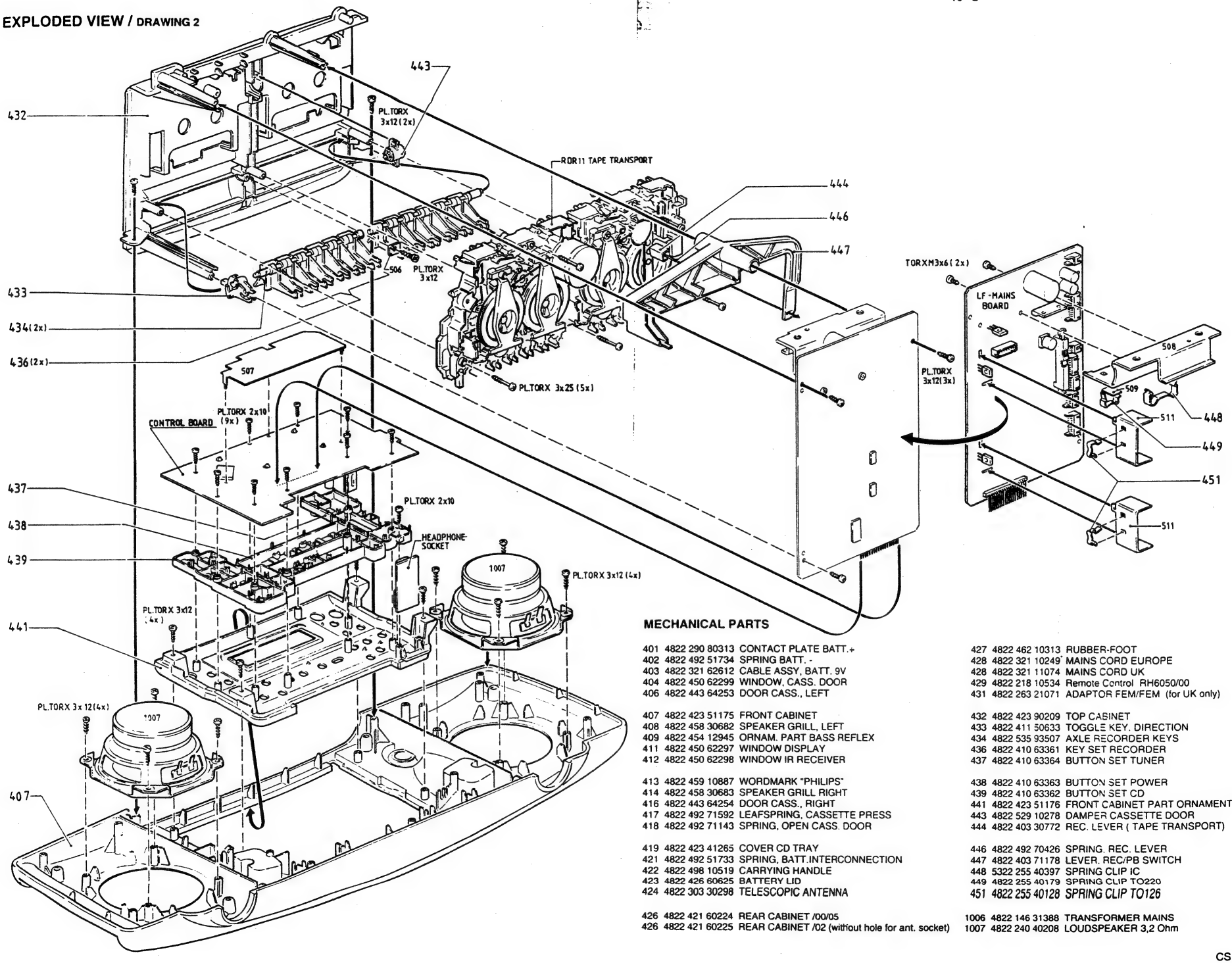
EXPLODED VIEW / DRAWING 1



10 - 2

EXPLODED VIEW / DRAWING 2

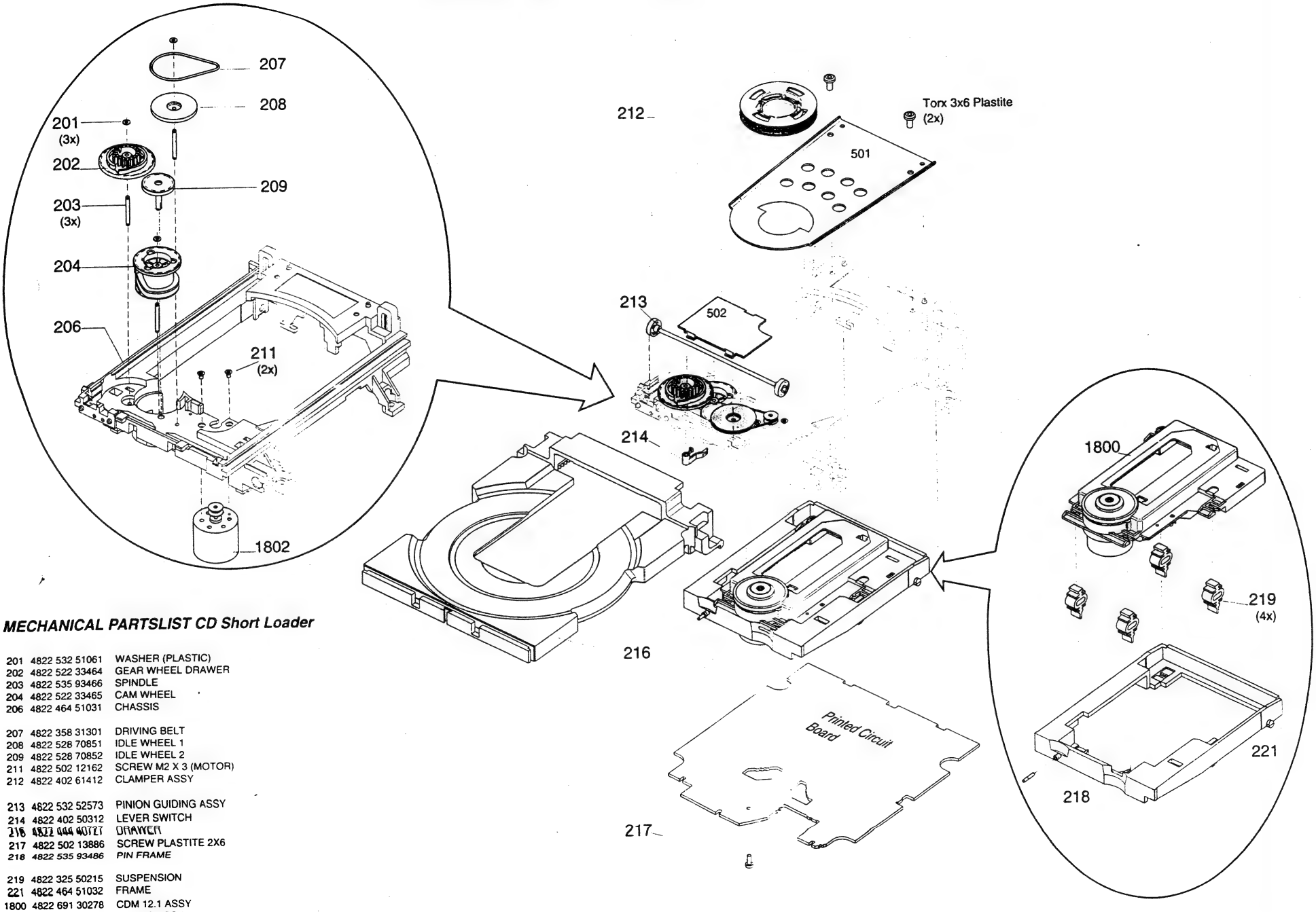


MECHANICAL PARTS

401	4822 290 80313	CONTACT PLATE BATT.+	
402	4822 492 51734	SPRING BATT. -	
403	4822 321 62612	CABLE ASSY, BATT. 9V	
404	4822 450 62299	WINDOW, CASS. DOOR	
406	4822 443 64253	DOOR CASS., LEFT	
407	4822 423 51175	FRONT CABINET	
408	4822 458 30682	SPEAKER GRILL, LEFT	
409	4822 454 12945	ORNAM. PART BASS REFLEX	
411	4822 450 62297	WINDOW DISPLAY	
412	4822 450 62298	WINDOW IR RECEIVER	
413	4822 459 10887	WORDMARK "PHILIPS"	
414	4822 458 30683	SPEAKER GRILL RIGHT	
416	4822 443 64254	DOOR CASS., RIGHT	
417	4822 492 71592	LEAFSPRING, CASSETTE PRESS	
418	4822 492 71143	SPRING, OPEN CASS. DOOR	
419	4822 423 41265	COVER CD TRAY	
421	4822 492 51733	SPRING, BATT.INTERCONNECTION	
422	4822 498 10519	CARRYING HANDLE	
423	4822 426 60625	BATTERY LID	
424	4822 303 30298	TELESCOPIC ANTENNA	
426	4822 421 60224	REAR CABINET /00/05	
426	4822 421 60225	REAR CABINET /02 (without hole for ant. socket)	
427	4822 462 10313	RUBBER-FOOT	
428	4822 321 10249	MAINS CORD EUROPE	
428	4822 321 11074	MAINS CORD UK	
429	4822 218 10534	Remote Control RH6050/00	
431	4822 263 21071	ADAPTOR FEM/FEM (for UK only)	
432	4822 423 90209	TOP CABINET	
433	4822 411 50633	TOGGLE KEY, DIRECTION	
434	4822 535 93507	AXLE RECORDER KEYS	
436	4822 410 63361	KEY SET RECORDER	
437	4822 410 63364	BUTTON SET TUNER	
438	4822 410 63363	BUTTON SET POWER	
439	4822 410 63362	BUTTON SET CD	
441	4822 423 51176	FRONT CABINET PART ORNAMENTAL	
443	4822 529 10278	DAMPER CASSETTE DOOR	
444	4822 403 30772	REC. LEVER (TAPE TRANSPORT)	
446	4822 492 70426	SPRING, REC. LEVER	
447	4822 403 71178	LEVER, REC/PB SWITCH	
448	5322 255 40397	SPRING CLIP IC	
449	4822 255 40179	SPRING CLIP TO220	
451	4822 255 40128	SPRING CLIP TO126	
1006	4822 146 31388	TRANSFORMER MAINS	
1007	4822 240 40208	LOUDSPEAKER 3,2 Ohm	

10 - 3

Exploded view CD Short Loader



MECHANICAL PARTSLIST CD Short Loader

201	4822 532 51061	WASHER (PLASTIC)
202	4822 522 33464	GEAR WHEEL DRAWER
203	4822 535 93466	SPINDLE
204	4822 522 33465	CAM WHEEL
206	4822 464 51031	CHASSIS
207	4822 358 31301	DRIVING BELT
208	4822 528 70851	IDLE WHEEL 1
209	4822 528 70852	IDLE WHEEL 2
211	4822 502 12162	SCREW M2 X 3 (MOTOR)
212	4822 402 61412	CLAMPER ASSY
213	4822 532 52573	PINION GUIDING ASSY
214	4822 402 50312	LEVER SWITCH
216	4822 444 40727	DRAWER
217	4822 502 13886	SCREW PLASTITE 2X6
218	*4822 535 93486*	*PIN FRAME*
219	4822 325 50215	SUSPENSION
221	4822 464 51032	FRAME
1800	4822 691 30278	CDM 12.1 ASSY
1802	4822 361 21708	MOTOR ASSY
	4822 502 30735	SCREW 3 X 6 PLASTITE

ELECTRICAL PARTSLIST

CONTROL BOARD

MISCELLANEOUS

1401	4822 130 91391	LCD, LPH5602-1
1405	4822 276 13355	TACT SWITCH 12V/50mA
1406	4822 276 13355	TACT SWITCH 12V/50mA
1407	4822 276 13355	TACT SWITCH 12V/50mA
1408	4822 276 13355	TACT SWITCH 12V/50mA
1409	4822 276 13355	TACT SWITCH 12V/50mA
1410	4822 276 13355	TACT SWITCH 12V/50mA
1411	4822 276 13355	TACT SWITCH 12V/50mA
1412	4822 276 13355	TACT SWITCH 12V/50mA
1413	4822 276 13355	TACT SWITCH 12V/50mA
1414	4822 276 13355	TACT SWITCH 12V/50mA
1415	4822 276 13355	TACT SWITCH 12V/50mA
1416	4822 276 13355	TACT SWITCH 12V/50mA
1417	4822 276 13355	TACT SWITCH 12V/50mA
1418	4822 276 13355	TACT SWITCH 12V/50mA
1419	4822 276 13355	TACT SWITCH 12V/50mA
1420	4822 276 13355	TACT SWITCH 12V/50mA
1421	4822 276 13355	TACT SWITCH 12V/50mA
1422	4822 276 13355	TACT SWITCH 12V/50mA
1423	4822 276 13355	TACT SWITCH 12V/50mA
1424	4822 276 13355	TACT SWITCH 12V/50mA
1425	4822 276 13355	TACT SWITCH 12V/50mA
1426	4822 276 13355	TACT SWITCH 12V/50mA
1427	4822 276 13355	TACT SWITCH 12V/50mA
1428	4822 276 13355	TACT SWITCH 12V/50mA
1429	4822 276 13355	TACT SWITCH 12V/50mA
1430	4822 276 13355	TACT SWITCH 12V/50mA
1431	4822 276 13355	TACT SWITCH 12V/50mA
1432	4822 276 13355	TACT SWITCH 12V/50mA
1433	4822 276 13355	TACT SWITCH 12V/50mA

DIODES

6403	4822 130 30621	1N4148
6404	4822 130 83746	HZ4BLL
6405	4822 130 34174	BZX79-F4V7

TRANSISTORS

7403	5322 130 60068	BC558C
7404	4822 130 44196	BC548C
7405	4822 130 44196	BC548C

INTEGRATED CIRCUITS

7401	4822 209 33663	TMP87CM70AF-AZ8640.1
7402	4822 214 52009	INFRARED RECEIVER, GP1U58XP

COILS

5401	4822 242 81016	X-TAL 32,768kHz
5402	5322 242 73697	CERAM.RES. 8MHz
5403	4822 157 62552	COIL 2,2µH

RESISTORS

3401	4822 116 52234	100k	5%	0,5W
3402	4822 116 52234	100k	5%	0,5W
3403	4822 116 52234	100k	5%	0,5W
3404	4822 116 52234	100k	5%	0,5W
3405	4822 116 52257	22k	5%	0,5W
3406	4822 116 52257	22k	5%	0,5W
3407	4822 116 52257	22k	5%	0,5W
3408	4822 116 52257	22k	5%	0,5W
3409	4822 116 52195	47R	5%	0,5W
3410	4822 116 52224	470R	5%	0,5W
3411	4822 116 52233	10k	5%	0,5W
3412	4822 050 11002	1k	5%	0,2W
3413	4822 050 11002	1k	5%	0,2W
3414	4822 050 11002	1k	5%	0,2W
3415	4822 050 11002	1k	5%	0,2W
3416	4822 116 52233	10k	5%	0,5W
3417	4822 050 11002	1k	5%	0,2W
3418	4822 116 52233	10k	5%	0,5W
3419	4822 050 11002	1k	5%	0,2W
3420	4822 050 11002	1k	5%	0,2W
3421	4822 116 81682	2M2	5%	0,5W
3422	4822 116 52257	22k	5%	0,5W
3424	4822 116 52234	100k	5%	0,5W
3425	4822 116 52297	68k	5%	0,5W
3426	4822 116 52277	39k	5%	0,5W
3427	4822 116 52257	22k	5%	0,5W
3428	4822 116 52257	22k	5%	0,5W
3429	4822 116 52257	22k	5%	0,5W
3430	4822 050 11002	1k	5%	0,2W
3431	4822 050 11002	1k	5%	0,2W
3432	4822 050 11002	1k	5%	0,2W
3433	4822 050 11002	1k	5%	0,2W
3434	4822 050 11002	1k	5%	0,2W
3435	4822 050 11002	1k	5%	0,2W
3436	4822 050 11002	1k	5%	0,2W
3437	4822 050 11002	1k	5%	0,2W
3438	4822 050 11002	1k	5%	0,2W
3439	4822 050 11002	1k	5%	0,2W
3440	4822 116 52234	100k	5%	0,5W
3441	4822 050 11002	1k	5%	0,2W
3442	4822 050 11002	1k	5%	0,2W
3443	4822 050 11002	1k	5%	0,2W
3444	4822 116 52235	1M	5%	0,5W
3445	4822 116 52235	1M	5%	0,5W
3446	4822 116 52235	1M	5%	0,5W
3447	4822 116 52235	1M	5%	0,5W
3448	4822 116 52235	1M	5%	0,5W
3449	4822 116 52235	1M	5%	0,5W
3450	4822 116 52234	100k	5%	0,5W
3451	4822 116 52234	100k	5%	0,5W
3452	4822 116 52234	100k	5%	0,5W
3453	4822 116 52234	100k	5%	0,5W
3454	4822 116 52234	100k	5%	0,5W
3455	4822 116 52234	100k	5%	0,5W
3456	4822 116 52234	100k	5%	0,5W
3457	4822 116 52234	100k	5%	0,5W
3458	4822 116 52234	100k	5%	0,5W
3459	4822 116 52234	100k	5%	0,5W
3460	4822 116 52234	100k	5%	0,5W
3461	4822 116 52234	100k	5%	0,5W
3462	4822 116 52234	100k	5%	0,5W
3463	4822 116 52234	100k	5%	0,5W
3464	4822 116 52234	100k	5%	0,5W
3465	4822 116 52234	100k	5%	0,5W
3466	4822 116 52234	100k	5%	0,5W
3467	4822 116 52234	100k	5%	0,5W
3468	4822 116 52234	100k	5%	0,5W
3469	4822 116 52234	100k	5%	0,5W
3470	4822 116 52234	100k	5%	0,5W
3471	4822 116 52234	100k	5%	0,5W
3472	4822 116 52234	100k	5%	0,5W
3473	4822 116 52234	100k	5%	0,5W
3474	4822 116 52234	100k	5%	0,5W
3475	4822 116 52234	100k	5%	0,5W
3476	4822 116 52234	100k	5%	0,5W
3477	4822 116 52234	100k	5%	0,5W
3478	4822 116 52234	100k	5%	0,5W
3479	4822 116 52234	100k	5%	0,5W
3480	4822 116 52234	100k	5%	0,5W
3481	4822 116 52234	100k	5%	0,5W
3482	4822 116 52257	22k	5%	0,5W
3483	4822 116 52215	220R	5%	0,16W
3484	4822 116 52257	22k	5%	0,5W
3485	4822 116 52257	22k	5%	0,5W
3486	4822 116 52284	47k	5%	0,5W
3487	4822 116 52234	100k	5%	0,5W
3488	4822 116 52284	47k	5%	0,5W
3489	4822 050 11002	1k	5%	0,2W
3490	4822 050 11002	1k	5%	0,2W
3491	4822 050 11002	1k	5%	0,2W
3492	4822 050 11002	1k	5%	0,2W
3493	4822 050 11002	1k	5%	0,2W
3494	4822 116 52285	470k	5%	0,5W
3495	4822 116 52285	470k	5%	0,5W
3496	4822 116 52285	470k	5%	0,5W
3497	4822 116 52285	470k	5%	0,5W
3498	4822 116 52285	470k	5%	0,5W
3499	4822 116 52285	470k	5%	0,5W
3690	4822 116 52263	2k7	5%	0,5W
3691	4822 116 52263	2k7	5%	0,5W
3692	4822 116 52263	2k7	5%	0,5W
3693	4822 116 52263	2k7	5%	0,5W
3694	4822 116 52263	2k7	5%	0,5W
3695	4822 116 52263	2k7	5%	0,5W

CAPACITORS

2401	4822 126 13324	7pF	0,5%	50V
2402	5322 122 32143	22pF	5%	50V
2403	4822 124 41643	100µF	20%	16V
2404	5322 121 42386	100nF	5%	63V
2405	4822 126 13325	100nF	10%	16V
2406	4822 124 42446	100µF	20%	10V
2407	4822 126 13325	100nF	10%	16V
2408	4822 126 12882	100nF	50V	
2410	4822 122 33195	100pF	10%	50V
2411	4822 122 33195	100pF	10%	50V
2412	4822 122 33195	100pF	10%	50V
2413	4822 122 33519	470pF	10%	50V
2415	4822 122 33197	1nF	10%	50V
2416	4822 122 33197	1nF	10%	50V
2417	4822 122 33197	1nF	10%	50V

CHIP CAPACITORS

x2401	4822 126 10507	TRIMCAP. 3 - 10pF (SERVICE SOLUTION)

LF-MAINS BOARD

MISCELLANEOUS

1260	4822 265 20287	SOCKET, MAINS
1264	4822 071 52502	FUSE T 2,5A
1322	4822 267 31607	SOCKET, HEADPHONE
1700	4822 277 20594	SWITCH SLIDE, REC/PB

DIODES

6261	4822 130 82078	D5SBA20
6270	4822 130 30621	1N4148
6271	4822 130 30621	1N4148
6272	4822 130 30621	1N4148
6273	4822 130 34278	BZX79-F6V8
6274	4822 130 30621	1N4148
6275	4822 130 34278	BZX79-F6V8
6276	4822 130 30621	1N4148
6277	4822 130 30621	1N4148
6278	4822 130 30621	1N4148
6279	4822 130 30621	1N4148
6280	4822 130 30621	1N4148
6290	4822 130 30621	1N4148
6700	4822 130 30621	1N4148
6710	4822 130 30621	1N4148
6711	4822 130 30621	1N4148
6712	4822 130 30621	1N4148

TRANSISTORS

7270	4822 130 44196	BC548C
7271	5322 130 60268	BD238
7272	4822 130 41344	BC337-40
7273	4822 130 44196	BC548C
7274	4822 130 44196	BC548C
7275	4822 130 41344	BC337-40
7276	5322 130 60268	BD238
7277	4822 130 44196	BC548C
7278	4822 130 41327	BC327-40
7279	4822 130 44196	BC548C
7280	5322 130 60068	BC558C
7321	5322 130 60068	BC558C
7322	4822 130 44196	BC548C
7323	4822 130 44196	BC548C
7324	4822 130 44196	BC548C
7702	4822 130 44196	BC548C
7703	4822 130 44196	BC548C
7704	4822 130 41344	BC337-40
7707	5322 130 60068	BC558C
7708	4822 130 44196	BC548C
7709	5322 130 60268	BD238
7710	4822 130 44196	BC548C
7711	4822 130 44196	BC548C
7712	4822 130 44196	BC548C

INTEGRATED CIRCUITS

7290	4822 209 33664	AN7135
7501	4822 209 33652	TEA6321T/V1
7502	4822 209 83357	NJM4560M
7700	4822 209 32918	AN7318S
7701	4822 209 32918	AN7318S

COILS

5260	4822 157 70003	COIL, MAINS FILTER
5302	4822 157 62552	COIL 2,2ÊH
5700	4822 156 20946	OSC.COIL 100kHz

RESISTORS

3268	4822 116 52217	270R	5%	0,5W
3269	4822 116 52217	270R	5%	0,5W
3270	4822 116 52199	68R	5%	0,16W
3271	4822 116 52244	15k	5%	0,5W
3272	4822 116 52224	470R	5%	0,5W
3273	4822 116 52234	100k	5%	0,5W
3274	4822 116 52303	8k2	5%	0,5W
3275	4822 116 52256	2k2	5%	0,16W
3276	4822 116 52215	220R	5%	0,16W
3277	4822 116 52215	220R	5%	0,16W
3278	4822 116 52244	15k	5%	0,5W
3279	4822 116 52224	470R	5%	0,5W
3280	4822 116 52211	150R	5%	0,5W
3281	4822 116 52224	470R	5%	0,5W
3282	4822 116 52234	100k	5%	0,5W
3283	4822 116 52256	2k2	5%	0,16W
3284	4822 116 52238	12k	5%	0,5W
3285	4822 116 52215	220R	5%	0,16W
3286	4822 116 52215	220R	5%	0,16W
3287	4822 116 52244	15k	5%	0,5W
3288	4822 116 52224	470R	5%	0,5W
3289	4822 116 52215	220R	5%	0,16W
3290	4822 116 52244	15k	5%	0,5W
3291	4822 116 52284	47k	5%	0,5W
3292	4822 116 52199	68R	5%	0,16W
3293	4822 116 52263	2k7	5%	0,5W
3294	4822 116 52283	4k7	5%	0,5W
3295	4822 116 52234	100k	5%	0,5W
3296	4822 111 30893	4M7	5%	0,2W
3298	4822 116 52224	470R	5%	0,5W
3299	4822 116 52193	39R	5%	0,16W
3320	4822 050 11002	1k	5%	0,2W
3321	4822 050 11002	1k	5%	0,2W
3324	4822 116 52222	390R	5%	0,16W
3325	4822 116 52222	390R	5%	0,16W
3326	4822 116 52211	150R	5%	0,5W
3327	4822 116 52211	150R	5%	0,5W
3329	4822 052 10228	2R2	5%	0,33W
3330	4822 052 10228	2R2	5%	0,33W
3331	4822 116 52285	470k	5%	0,5W
3332	4822 116 52258	220k	5%	0,5W
3333	4822 116 81682	2M2	5%	0,5W
3334	4822 116 52222	390R	5%	0,16W
3335	4822 116 52222	390R	5%	0,16W
3336	4822 116 52284	47k	5%	0,5W
3337	4822 116 52271	33k	5%	0,16W
3338	4822 116 52234	100k	5%	0,5W
3339	4822 116 52233	10k	5%	0,5W
3340	4822 116 52233	10k	5%	0,5W
3341	4822 116 52269	3k3	5%	0,16W
3342	4822 116 52269	3k3	5%	0,16W
3551	4822 116 52263	2k7	5%	0,16W
3552	4822 116 52263	2k7	5%	0,16W
3553	4822 116 52249	1k8	5%	0,16W
3554	4822 116 52249	1k8	5%	0,16W

RESISTORS

3555	4822 116 52251	18k	5%	0,5W
3556	4822 116 52251	18k	5%	0,5W
3557	4822 116 52256	2k2	5%	0,16W
3558	4822 116 52256	2k2	5%	0,16W
3559	4822 116 52283	4k7	5%	0,5W
3560	4822 116 52283	4k7	5%	0,5W
3561	4822 116 52303	8k2	5%	0,16W
3562	4822 116 52303	8k2	5%	0,16W
3563	4822 116 52283	4k7	5%	0,5W
3564	4822 116 52283	4k7	5%	0,5W
3565	4822 116 52233	10k	5%	0,5W
3566	4822 116 52233	10k	5%	0,5W
3567	4822 116 52289	5k6	5%	0,16W
3568	4822 116 52289	5k6	5%	0,16W
3570	4822 116 52283	4k7	5%	0,5W
3571	4822 116 52283	4k7	5%	0,5W
3572	4822 116 52283	4k7	5%	0,5W
3573	4822 116 52283	4k7	5%	0,5W
3574	4822 116 52283	4k7	5%	0,5W
3575	4822 116 52283	4k7	5%	0,5W
3576	4822 116 52283	4k7	5%	0,5W
3577	4822 116 52283	4k7	5%	0,5W
3578	4822 116 52277	39k	5%	0,5W
3579	4822 116 52277	39k	5%	0,5W
3702	4822 116 52243	1k5	5%	0,5W
3703	4822 116 52243	1k5	5%	0,5W
3704	4822 116 52224	470R	5%	0,5W
3705	4822 116 52224	470R	5%	0,5W
3706	4822 116 52215	220R	5%	0,16W
3707	4822 116 52215	220R	5%	0,16W
3708	4822 116 52175	100R	5%	0,5W
3709	4822 116 52175	100R	5%	0,5W
3710	4822 116 52277	39k	5%	0,5W
3711	4822 116 52277	39k	5%	0,5W
3712	4822 116 52224	470R	5%	0,5W
3713	4822 116 52224	470R	5%	0,5W
3714	4822 116 52215	220R	5%	0,16W
3715	4822 116 52215	220R	5%	0,16W
3716	4822 116 52175	100R	5%	0,5W
3717	4822 116 52175	100R	5%	0,5W
3718	4822 116 52175	100R	5%	0,5W
3719	4822 116 52245	150k	5%	0,16W
3720	4822 116 52245	150k	5%	0,16W
3721	4822 116 52245	150k	5%	0,16W
3722	4822 116 52244	15k	5%	0,5W
3723	4822 116 52244	15k	5%	0,5W
3724	4822 116 52175	100R	5%	0,5W
3725	4822 116 52265	270k	5%	0,5W
3726	4822 116 52265	270k	5%	0,5W
3727	4822 116 52265	270k	5%	0,5W
3728	4822 116 52244	15k	5%	0,5W
3729	4822 116 52244	15k	5%	0,5W
3730	4822 116 52234	100k	5%	0,5W
3731	4822 116 52234	100k	5%	0,5W
3734	4822 116 52244	15k	5%	0,5W
3735	4822 116 52244	15k	5%	0,5W
3736	4822 116 52276	3k9	5%	0,5W
3737	4822 116 52276	3k9	5%	0,5W
3738	4822 116 52284	47k	5%	0,5W
3739	4822 116 52284	47k	5%	0,5W
3742	4822 116 52292	560k	5%	0,5W
3743	4822 116 52186	22R	5%	0,5W
3744	4822 116 52233	10k	5%	0,5W
3745	4822 116 52179	12R	5%	0,5W

RESISTORS

3746	4822 111 30893	4M7	5%	0,2W
3747	4822 116 52234	100k	5%	0,5W
3748	4822 116 52258	220k	5%	0,5W
3750	4822 116 52256	2k2	5%	0,16W
3751	4822 116 52256	2k2	5%	0,16W
3753	4822 116 52285	470k	5%	0,5W
3754	4822 116 52233	10k	5%	0,5W
3756	4822 116 52289	5k6	5%	0,16W
3757	4822 116 52233	10k	5%	0,5W
3758	4822 050 11002	1k	5%	0,2W
3759	4822 116 52292	560k	5%	0,16W
3760	4822 116 52215	220R	5%	0,16W
3761	4822 116 52215	220R	5%	0,16W
3763	4822 116 52233	10k	5%	0,5W
3764	4822 116 52228	680R	5%	0,5W
3765	4822 116 52296	6k8	5%	0,5W
3766	4822 116 52269	3k3	5%	0,5W
3768	4822 116 52298	680k	5%	0,5W
3769	4822 116 52238	12k	5%	0,5W
3770	4822 116 52298	680k	5%	0,5W
3771	4822 116 52251	18k	5%	0,16W
3772	4822 116 52251	18k	5%	0,16W
3775	4822 116 52297	68k	5%	0,5W
3776	4822 116 52297	68k	5%	0,5W
3777	4822 116 52257	22k	5%	0,5W
3778	4822 116 52257	22k	5%	0,5W
3779	4822 116 52191	33R	5%	0,5W
3781	4822 116 52233	10k	5%	0,5W
3782	4822 116 52296	6k8	5%	0,5W
3783	4822 116 52234	100k	5%	0,5W
3784	4822 116 52234	100k	5%	0,5W
3790	4822 116 52258	220k	5%	0,5W
3791	4822 050 11002	1k	5%	0,2W
3795	4822 116 80176	1R	5%	0,5W
3796	4822 116 80176	1R	5%	0,5W
3797	4822 116 52249	1k8	5%	0,16W
3798	4822 116 52249	1k8	5%	0,16W

CHIP RESISTORS — FROM PRINT STAGE .5 ONWARDS

3590	4822 051 10008	CHIP JUMPER 1206
3591	4822 051 20008	CHIP JUMPER 0805

CAPACITORS

2260	4822 121 70087	47nF	10%	250V
2261	4822 121 42408	220nF	5%	63V
2262	4822 121 42408	220nF	5%	63V
2263	4822 121 42408	220nF	5%	63V
2264	4822 121 42408	220nF	5%	63V
2267	4822 124 40242	1µF	20%	63V
2268	4822 124 40242	1µF	20%	63V
2270	4822 124 42119	4700µF	20%	25V
2271	4822 126 12882	100nF	50V	
2272	5322 121 42386	100nF	5%	63V
2273	4822 124 41525	100µF	20%	25V
2274	4822 126 12882	100nF	50V	
2275	5322 121 42386	100nF	5%	63V
2276	4822 124 41525	100µF	20%	25V
2277	4822 124 41584	100µF	20%	10V
2278	4822 124 41576	2,2µF	20%	50V
2279	4822 124 40246	4,7µF	20%	63V
2280	4822 126 12882	100nF	50V	
2320	4822 126 12339	2,2nF	10%	16V
2321	4822 126 12339	2,2nF	10%	16V

CAPACITORS

2322	4822 124 40248	10µF	20%	63V
2323	4822 124 40248	10µF	20%	63V
2328	4822 124 40433	47µF	20%	25V
2329	4822 124 40433	47µF	20%	25V
2331	4822 124 40184	1000µF	20%	10V
2332	4822 124 40184	1000µF	20%	10V
2334	4822 124 22263	220µF	20%	25V
2335	4822 124 41584	100µF	20%	10V
2338	4822 126 12339	2,2nF	10%	16V
2339	4822 126 12339	2,2nF	10%	16V
2340	4822 121 51387	10nF	20%	16V
2341	4822 121 51387	10nF	20%	16V
2342	4822 121 42408	220nF	5%	63V
2343	4822 121 42408	220nF	5%	63V
2537	4822 124 40746	0,22µF	20%	63V
2538	4822 124 40746	0,22µF	20%	63V
2551	4822 126 12785	47nF		50V
2552	4822 126 12785	47nF		50V
2553	4822 126 12785	47nF		50V
2554	4822 126 12785	47nF		50V
2555	4822 126 12785	47nF		50V
2556	4822 126 12785	47nF		50V
2557	4822 126 12785	47nF		50V
2558	4822 126 12785	47nF		50V
2559	5322 121 42465	68nF	10%	63V
2560	5322 121 42465	68nF	10%	63V
2561	4822 121 42408	220nF	5%	63V
2562	4822 121 42408	220nF	5%	63V
2563	5322 121 42386	100nF	5%	63V
2564	5322 121 42386	100nF	5%	63V
2565	4822 126 13151	3,9nF	10%	16V
2566	4822 126 13151	3,9nF	10%	16V
2567	5322 121 42386	100nF	5%	63V
2568	5322 121 42386	100nF	5%	63V
2569	4822 126 11714	4,7nF	20%	
2570	4822 126 11714	4,7nF	20%	
2571	4822 122 33849	150pF	5%	50V
2572	4822 122 33849	150pF	5%	50V
2590	4822 124 40177	47µF	20%	10V
2591	4822 124 41584	100µF	20%	10V
2593	4822 124 80791	470µF	20%	16V
2700	4822 122 10459	560pF	10%	50V
2701	4822 122 10459	560pF	10%	50V
2702	4822 122 10459	560pF	10%	50V
2703	4822 122 10459	560pF	10%	50V
2704	4822 124 41584	100µF	20%	10V
2705	4822 124 41584	100µF	20%	10V
2706	4822 124 41584	100µF	20%	10V
2707	4822 124 41584	100µF	20%	10V
2708	4822 122 33519	470pF	10%	50V
2709	4822 122 33519	470pF	10%	50V
2710	4822 122 10576	1,8nF	10%	50V
2711	4822 122 33519	470pF	10%	50V
2712	4822 122 33519	470pF	10%	50V
2713	4822 124 40433	47µF	20%	25V
2714	4822 126 12878	1,5nF	10%	16V
2715	4822 124 40433	47µF	20%	25V
2716	4822 126 10329	68pF	5%	50V
2717	4822 126 12878	1,5nF	10%	16V
2718	4822 124 40248	10µF	20%	63V
2719	4822 124 40248	10µF	20%	63V
2720	4822 126 11593	10nF	10%	50V
2721	4822 126 11593	10nF	10%	50V

CAPACITORS

2722	4822 126 11593	10nF	10%	50V
2723	5322 124 41431	22µF	20%	25V
2725	4822 126 10329	68pF	5%	50V
2727	4822 124 40248	10µF	20%	63V
2729	4822 126 11593	10nF	10%	50V
2730	4822 121 41857	10nF	5%	250V
2731	4822 121 51387	10nF	20%	16V
2732	4822 126 11714	4,7nF	20%	
2733	4822 121 41935	12nF	5%	250V
2738	4822 121 51387	10nF	20%	16V
2739	4822 122 10576	1,8nF	10%	50V
2742	4822 126 11593	10nF	10%	50V
2744	4822 122 10577	3,3nF	10%	16V
2745	4822 122 10577	3,3nF	10%	16V
2746	4822 124 40248	10µF	20%	63V
2747	4822 122 33195	100pF	10%	50V
2748	4822 122 33195	100pF	10%	50V
2749	4822 126 11593	10nF	10%	50V
2750	4822 124 40246	4,7µF	20%	63V
2751	4822 124 40196	220µF	20%	16V
2753	4822 122 10576	1,8nF	10%	16V
2754	4822 122 10576	1,8nF	10%	16V
2755	4822 122 33519	470pF	10%	50V
2756	4822 122 33519	470pF	10%	50V
2758	4822 124 40433	47µF	20%	25V
2759	4822 126 10778	220pF	5%	50V
2760	4822 121 43897	1nF	5%	50V
2761	4822 121 41856	22nF	10%	50V
2762	4822 121 41856	22nF	10%	50V
2763	4822 124 40246	4,7 µF	20%	63V
2765	4822 124 40248	10µF	20%	63V

FOR PRINT STAGE .4 ONLY

2766	4822 122 33519	470pF	10%	50V
2767	4822 122 33519	470pF	10%	50V

CHIP CAPACITORS FROM PRINT STAGE .5 ONWARDS

2766	5322 122 32268	470pF	10%	50V
2767	5322 122 32268	470pF	10%	50V

TUNER BOARD ECO4VA-PA

MISCELLANEOUS

1101	4822 267 10283	SOCKET COAX IEC 75R (NOT FOR /02)

DIODES

6101	4822 130 30621	1N4148	
6105	4822 130 83075	HN1V02H	(TUNING DIODE)
6109	4822 130 82833	1SV228	(TUNING DIODE)
6121	4822 130 30621	1N4148	
6122	4822 130 30621	1N4148	
6123	4822 130 30621	1N4148	
6124	4822 130 82833	1SV228	(TUNING DIODE)
6140	4822 130 30621	1N4148	
6154	4822 130 30621	1N4148	
6174	4822 130 34174	BZX79-B4V7	
6180	4822 130 30621	1N4148	
6181	4822 130 30621	1N4148	
6182	4822 130 30621	1N4148	

TRANSISTORS

7102	5322 130 42136	BC848C(CHIP)
7104	5322 130 42136	BC848C(CHIP)
7105	4822 130 60093	2SA838B
7120	4822 130 60163	2SC1047
7121	5322 130 42136	BC848C(CHIP)
7123	5322 130 42136	BC848C(CHIP)
7128	5322 130 42136	BC848C(CHIP)
7168	5322 130 41983	BC858B(CHIP)
7170	5322 130 42136	BC848C(CHIP)
7171	5322 130 42136	BC848C(CHIP)
7175	4822 130 44197	BC558B
7176	5322 130 42136	BC848C(CHIP)
7177	5322 130 42136	BC848C(CHIP)
7179	5322 130 42136	BC848C(CHIP)

INTEGRATED CIRCUITS

7140	4822 209 32701	TEA5712T/N2 (RF IC)
7172	5322 209 11517	PC74HCU04T (6x INVERTER)
7173	4822 209 31998	LC7218M (SYNTHESIZER)
7180	5322 209 14482	HEF4069UBT (6x INVERTER)

COILS

5105	4822 158 60641	FERRITE ANT., MW/LW
5106	4822 158 60642	FERRITE ANT., MW
5109	4822 156 30947	RF COIL 1,5 TURNS
5120	4822 156 30947	RF COIL 1,5 TURNS
5122	4822 157 60517	OSC. COIL LW
5123	4822 157 60517	OSC. COIL MW
5140	4822 158 60511	AM-IF FILTER 450kHz
5142	4822 157 70302	AM-IF FILTER 450kHz
5143	4822 242 70665	CER. FILTER 10,7MHZ
5144	4822 242 70665	CER. FILTER 10,7MHZ
5145	4822 242 81362	CER. DISCRIMINATOR
5170	4822 242 72976	CER.RESONATOR 7.2MHz

RESISTORS

3112	4822 116 52176	10R	5%	0,5W
3119	4822 116 52224	470R	5%	0,5W
3120	4822 116 52289	5k6	5%	0,16W
3124	4822 116 52256	2k2	5%	0,16W
3132	4822 116 52283	4k7	5%	0,5W
3141	4822 116 52215	220R	5%	0,16W
3148	4822 100 11163	TRIMPOT. 100k lin.		
3151	4822 116 52243	1k5	5%	0,16W
3156	4822 116 52233	10k	5%	0,5W
3162	4822 050 11002	1k	5%	0,2W
3163	4822 050 11002	1k	5%	0,2W
3170	4822 116 52283	4k7	5%	0,5W
3173	4822 116 52244	15k	5%	0,5W
3174	4822 116 52233	10k	5%	0,5W
3177	4822 116 52233	10k	5%	0,5W
3189	4822 116 52249	1k8	5%	0,16W
3190	4822 116 52249	1k8	5%	0,16W
3191	4822 116 52249	1k8	5%	0,16W
3192	4822 116 52249	1k8	5%	0,16W
3196	4822 116 52233	10k	5%	0,5W
3197	4822 050 11002	1k	5%	0,2W
3198	4822 116 52256	2k2	5%	0,16W
3206	4822 116 52215	220R	5%	0,16W

CHIP RESISTORS

3106	4822 051 20104	100k	5%	0,1W
3107	4822 051 20222	2k2	5%	0,1W
3108	4822 051 20104	100k	5%	0,1W
3109	4822 051 20222	2k2	5%	0,1W
3111	4822 051 20479	47R	5%	0,1W
3116	4822 051 20335	3M3	5%	0,1W
3121	4822 051 20104	100k	5%	0,1W
3122	4822 051 20471	470R	5%	0,1W
3123	4822 051 20223	22k	5%	0,1W
3125	4822 051 20472	4k7	5%	0,1W
3128	4822 117 10833	10k	1%	0,1W
3129	4822 051 20472	4k7	5%	0,1W
3136	4822 051 20224	220k	5%	0,1W
3137	4822 051 20104	100k	5%	0,1W
3138	4822 051 20104	100k	5%	0,1W
3139	4822 051 20104	100k	5%	0,1W
3142	4822 051 20222	2k2	5%	0,1W
3144	4822 117 10833	10k	1%	0,1W
3147	4822 051 20184	180k	5%	0,1W
3149	4822 051 20563	56k	5%	0,1W
3157	4822 051 20273	27k	5%	0,1W
3158	4822 051 20189	18R	5%	0,1W
3159	4822 051 20563	56k	5%	0,1W
3167	4822 051 20331	330R	5%	0,1W
3168	4822 117 10833	10k	1%	0,1W
3169	4822 051 20224	220k	5%	0,1W
3171	4822 051 20101	100R	5%	0,1W
3172	4822 051 20472	4k7	5%	0,1W
3175	4822 051 20104	100k	5%	0,1W
3176	4822 051 20101	100R	5%	0,1W
3183	4822 051 20223	22k	5%	0,1W
3184	4822 051 20223	22k	5%	0,1W
3186	4822 051 20104	100k	5%	0,1W
3188	4822 051 10102	1k	2%	0,25W
3199	4822 051 20224	220k	5%	0,1W
3211	4822 051 10008	CHIP JUMPER 1206		
3212	4822 051 10008	CHIP JUMPER 1206		
3213	4822 051 10008	CHIP JUMPER 1206		

CHIP RESISTORS

3216	4822 051 10008	CHIP JUMPER 1206			
3222	4822 051 20008	CHIP JUMPER 0805			
3223	4822 051 20008	CHIP JUMPER 0805			
3224	4822 051 20008	CHIP JUMPER 0805			
3226	4822 051 20008	CHIP JUMPER 0805			
3228	4822 051 10008	CHIP JUMPER 1206			
3229	4822 051 20008	CHIP JUMPER 0805			
3231	4822 051 20008	CHIP JUMPER 0805			
3233	4822 051 20008	CHIP JUMPER 0805			
3234	4822 051 20008	CHIP JUMPER 0805			
3235	4822 051 20008	CHIP JUMPER 0805			
3237	4822 051 10008	CHIP JUMPER 1206			
3238	4822 051 20008	CHIP JUMPER 0805			
3240	4822 051 10008	CHIP JUMPER 1206			
3241	4822 051 20008	CHIP JUMPER 0805			
3242	4822 051 10008	CHIP JUMPER 1206			
3243	4822 051 20008	CHIP JUMPER 0805			
3244	4822 051 20008	CHIP JUMPER 0805			
3245	4822 051 20008	CHIP JUMPER 0805			
3246	4822 051 10008	CHIP JUMPER 1206			
3247	4822 051 10008	CHIP JUMPER 1206			
3248	4822 051 10008	CHIP JUMPER 1206			

CAPACITORS

2104	4822 122 33195	100pF	10%	50V	
2115	4822 125 60101	3-11pF VARIABLE			
2118	4822 122 33195	100pF	10%	50V	
2124	4822 121 51387	10nF	20%	16V	
2129	4822 121 43705	390pF	1%	160V	
2130	4822 125 50355	4,2-20pF VARIABLE			
2131	4822 122 33197	1nF	10%	50V	
2134	4822 122 33197	1nF	10%	50V	
2135	4822 121 70245	560pF	1%	160V	
2141	4822 124 40244	2,2µF	20%	63V	
2142	4822 124 40242	1µF	20%	63V	
2143	4822 124 40239	0,47µF	20%	63V	
2144	4822 124 40239	0,47µF	20%	63V	
2150	4822 124 40248	10µF	20%	63V	
2151	4822 124 40248	10µF	20%	63V	
2152	4822 124 41584	100µF	20%	10V	
2160	4822 124 40242	1µF	20%	63V	
2161	4822 124 40242	1µF	20%	63V	
2162	4822 124 40248	10µF	20%	63V	
2164	4822 124 40248	10µF	20%	63V	
2170	4822 126 11714	4,7nF	20%		
2172	4822 124 41631	1,5µF	20%	50V	
2173	4822 124 40433	47µF	20%	25V	
2174	4822 122 33197	1nF	10%	50V	
2175	4822 122 33197	1nF	10%	50V	
2177	4822 126 12882	100nF	50V		
2178	4822 122 33197	1nF	10%	50V	
2179	4822 122 33195	100pF	10%	50V	
2184	4822 124 41584	100µF	20%	10V	
2189	4822 124 40433	47µF	20%	25V	

CHIP CAPACITORS

2107	5322 122 34123	1nF	10%	50V	
2110	5322 122 32659	33pF	5%	50V	MW/LW
2110	5322 122 32269	6,8pF	5%	50V	MW
2112	4822 122 33496	100nF	10%	63V	
2114	5322 122 32531	100pF	5%	50V	

CHIP CAPACITORS

2120	5322 122 32268	470pF	10%	50V
2121	5322 122 32481	15pF	5%	50V
2122	5322 122 34123	1nF	10%	50V
2123	5322 122 34123	1nF	10%	50V
2133	4822 122 33128	15nF	10%	63V
2138	5322 122 32659	33pF	5%	50V
2139	4822 122 33891	3,3nF	10%	63V
2145	4822 122 33496	100nF	10%	63V
2146	5322 122 33063	2,2pF	10%	50V
2147	4822 122 33177	10nF	20%	50V
2148	5322 122 34123	1nF	10%	50V
2149	5322 122 34123	1nF	10%	50V
2154	4822 122 33893	18nF	10%	63V
2155	4822 122 33893	18nF	10%	63V
2163	5322 122 34123	1nF	10%	50V
2165	5322 122 34123	1nF	10%	50V
2167	4822 122 33496	100nF	10%	63V
2169	5322 122 31863	330pF	5%	50V
2171	5322 126 10223	4,7nF	10%	63V
2180	5322 122 31946	27pF	5%	50V
2181	4822 122 32139	12pF	5%	63V
2182	4822 122 33496	100nF	10%	63V
2183	4822 122 33496	100nF	10%	63V
2185	4822 122 33496	100nF	10%	63V
2186	5322 122 34123	1nF	10%	50V

CD BOARD

MISCELLANEOUS

1810	4822 276 13503	SWITCH, TRAY

DIODES

6857	4822 130 30621	1N4148
6881	4822 130 31981	BZX79-C3V9
6883	4822 130 31981	BZX79-C3V9

TRANSISTORS

7820	4822 130 41344	BC337-40
7856	5322 130 60123	BC807-40 (CHIP)
7872	5322 130 42136	BC848C (CHIP)
7881	5322 130 41983	BC858B (CHIP)
7883	4822 130 44197	BC558B
7884	4822 130 41344	BC337-40
7885	4822 130 41344	BC337-40

INTEGRATED CIRCUITS

7800	5322 209 11517	PC74HCU04T
7850	4822 209 31064	TDA1301T/N1
7851	4822 209 32852	TDA7073A/N2
7852	4822 209 32852	TDA7073A/N2
7855	4822 209 31519	TDA7072A
7860	4822 209 33339	SAA7345GP/M5
7871	4822 209 32196	TDA1311AT/N2
7886	4822 272 10371	7805 (Voltage regulator)
7890	4822 209 33337	MC68HC05C8FB

COILS

5860	4822 543 00376	QUARTZ 16,934 MHz
5890	4822 242 72527	CERAMIC RESONATOR 4.0 MHz

RESISTORS

3760	4822 116 52296	6k8	5%	0,5W
3761	4822 116 52283	4k7	5%	0,5W
3801	4822 116 52224	470R	5%	0,5W
3815	4822 050 11002	1k	5%	0,2W
3818	4822 116 52233	10k	5%	0,5W
3820	4822 050 11002	1k	5%	0,2W
3825	4822 116 52233	10k	5%	0,5W
3826	4822 116 52233	10k	5%	0,5W
3827	4822 116 52233	10k	5%	0,5W
3828	4822 116 52233	10k	5%	0,5W
3829	4822 116 52233	10k	5%	0,5W
3830	4822 116 52233	10k	5%	0,5W
3832	4822 116 52175	100R	5%	0,5W
3833	4822 116 52233	10k	5%	0,5W
3835	4822 116 52264	27k	5%	0,5W
3836	4822 116 52207	1k2	5%	0,5W
3837	4822 116 52296	6k8	5%	0,5W
3838	4822 116 52257	22k	5%	0,5W
3839	4822 116 52207	1k2	5%	0,5W
3840	4822 116 52296	6k8	5%	0,5W
3841	4822 116 52297	68k	5%	0,5W
3843	4822 116 52277	39k	5%	0,16W
3844	4822 050 11002	1k	5%	0,2W
3845	4822 116 52277	39k	5%	0,16W
3846	4822 050 11002	1k	5%	0,2W

RESISTORS

3847	4822 116 40227	4R7	PTC	
3848	4822 050 11002	1k	5%	0,2W
3849	4822 052 10338	3R3		NFR25
3850	4822 050 11002	1k	5%	0,2W
3851	4822 116 52264	27k	5%	0,5W
3852	4822 050 11002	1k	5%	0,2W
3853	4822 116 52296	6k8	5%	0,5W
3857	4822 116 52215	220R	5%	0,16W
3858	4822 116 52215	220R	5%	0,16W
3860	4822 116 52175	100R	5%	0,5W
3871	4822 116 52186	22R	5%	0,5W
3876	4822 116 52284	47k	5%	0,5W
3877	4822 116 52284	47k	5%	0,5W
3880	4822 050 11002	1k	5%	0,2W
3881	4822 050 11002	1k	5%	0,2W
3886	4822 116 52226	560R	5%	0,5W
3889	4822 116 52233	10k	5%	0,5W
3891	4822 116 52186	22R	5%	0,5W

CHIP RESISTORS

3750	4822 051 20154	150k	5%	0,1W
3751	4822 051 20331	330R	5%	0,1W
3752	4822 051 20221	220R	5%	0,1W
3754	4822 051 20105	1M	5%	0,1W
3755	4822 117 10833	10k	1%	0,1W
3762	4822 051 20221	220R	5%	0,1W
3763	4822 051 20221	220R	5%	0,1W
3764	4822 051 20221	220R	5%	0,1W
3785	4822 117 10833	10k	1%	0,1W
3790	4822 117 10833	10k	1%	0,1W
3791	4822 117 10833	10k	1%	0,1W
3792	4822 117 10833	10k	1%	0,1W
3793	4822 117 10833	10k	1%	0,1W
3795	4822 117 10833	10k	1%	0,1W
3802	4822 051 10102	1k	2%	0,25W
3803	4822 051 20335	3M3	5%	0,1W
3804	4822 051 20682	6k8	5%	0,1W
3805	4822 051 20223	22k	5%	0,1W
3806	4822 117 10833	10k	1%	0,1W
3807	4822 117 10833	10k	1%	0,1W
3808	4822 117 10834	47k	1%	0,1W
3809	4822 051 20332	3k3	5%	0,1W
3810	4822 051 20332	3k3	5%	0,1W
3811	4822 051 20223	22k	5%	0,1W
3812	4822 051 20332	3k3	5%	0,1W
3813	4822 051 20332	3k3	5%	0,1W
3814	4822 051 20332	3k3	5%	0,1W
3821	4822 051 20124	120k	5%	0,1W
3822	4822 051 20563	56k	5%	0,1W
3823	4822 051 20331	330R	5%	0,1W
3824	4822 051 20124	120k	5%	0,1W
3831	4822 051 20223	22k	5%	0,1W
3834	4822 051 20229	22R	5%	0,1W
3842	4822 051 20182	1k8	5%	0,1W
3854	4822 117 10833	10k	1%	0,1W
3855	4822 051 20224	220k	5%	0,1W
3856	4822 051 20223	22k	5%	0,1W
3862	4822 051 20105	1M	5%	0,1W
3863	4822 051 10102	1k	2%	0,25W
3864	4822 051 10102	1k	2%	0,25W
3865	4822 051 10102	1k	2%	0,25W
3866	4822 051 20331	330R	5%	0,1W
3867	4822 051 20472	4k7	5%	0,1W

CHIP RESISTORS

3216	4822 051 10008	CHIP JUMPER 1206			
3222	4822 051 20008	CHIP JUMPER 0805			
3223	4822 051 20008	CHIP JUMPER 0805			
3224	4822 051 20008	CHIP JUMPER 0805			
3226	4822 051 20008	CHIP JUMPER 0805			
3228	4822 051 10008	CHIP JUMPER 1206			
3229	4822 051 20008	CHIP JUMPER 0805			
3231	4822 051 20008	CHIP JUMPER 0805			
3233	4822 051 20008	CHIP JUMPER 0805			
3234	4822 051 20008	CHIP JUMPER 0805			
3235	4822 051 20008	CHIP JUMPER 0805			
3237	4822 051 10008	CHIP JUMPER 1206			
3238	4822 051 20008	CHIP JUMPER 0805			
3240	4822 051 10008	CHIP JUMPER 1206			
3241	4822 051 20008	CHIP JUMPER 0805			
3242	4822 051 10008	CHIP JUMPER 1206			
3243	4822 051 20008	CHIP JUMPER 0805			
3244	4822 051 20008	CHIP JUMPER 0805			
3245	4822 051 20008	CHIP JUMPER 0805			
3246	4822 051 10008	CHIP JUMPER 1206			
3247	4822 051 10008	CHIP JUMPER 1206			
3248	4822 051 10008	CHIP JUMPER 1206			

CAPACITORS

2104	4822 122 33195	100pF	10%	50V	
2115	4822 125 60101	3-11pF VARIABLE			
2118	4822 122 33195	100pF	10%	50V	
2124	4822 121 51387	10nF	20%	16V	
2129	4822 121 43705	390pF	1%	160V	
2130	4822 125 50355	4,2-20pF VARIABLE			
2131	4822 122 33197	1nF	10%	50V	
2134	4822 122 33197	1nF	10%	50V	
2135	4822 121 70245	560pF	1%	160V	
2141	4822 124 40244	2,2µF	20%	63V	
2142	4822 124 40242	1µF	20%	63V	
2143	4822 124 40239	0,47µF	20%	63V	
2144	4822 124 40239	0,47µF	20%	63V	
2150	4822 124 40248	10µF	20%	63V	
2151	4822 124 40248	10µF	20%	63V	
2152	4822 124 41584	100µF	20%	10V	
2160	4822 124 40242	1µF	20%	63V	
2161	4822 124 40242	1µF	20%	63V	
2162	4822 124 40248	10µF	20%	63V	
2164	4822 124 40248	10µF	20%	63V	
2170	4822 126 11714	4,7nF	20%		
2172	4822 124 41631	1,5µF	20%	50V	
2173	4822 124 40433	47µF	20%	25V	
2174	4822 122 33197	1nF	10%	50V	
2175	4822 122 33197	1nF	10%	50V	
2177	4822 126 12882	100nF	50V		
2178	4822 122 33197	1nF	10%	50V	
2179	4822 122 33195	100pF	10%	50V	
2184	4822 124 41584	100µF	20%	10V	
2189	4822 124 40433	47µF	20%	25V	

CHIP CAPACITORS

2107	5322 122 34123	1nF	10%	50V	
2110	5322 122 32659	33pF	5%	50V	MW/LW
2110	5322 122 32269	6,8pF	5%	50V	MW
2112	4822 122 33496	100nF	10%	63V	
2114	5322 122 32531	100pF	5%	50V	

CHIP CAPACITORS

2120	5322 122 32268	470pF	10%	50V	
2121	5322 122 32481	15pF	5%	50V	
2122	5322 122 34123	1nF	10%	50V	
2123	5322 122 34123	1nF	10%	50V	
2133	4822 122 33128	15nF	10%	63V	
2138	5322 122 32659	33pF	5%	50V	
2139	4822 122 33891	3,3nF	10%	63V	
2145	4822 122 33496	100nF	10%	63V	
2146	5322 122 33063	2,2pF	10%	50V	
2147	4822 122 33177	10nF	20%	50V	
2148	5322 122 34123	1nF	10%	50V	
2149	5322 122 34123	1nF	10%	50V	
2154	4822 122 33893	18nF	10%	63V	
2155	4822 122 33893	18nF	10%	63V	
2163	5322 122 34123	1nF	10%	50V	
2165	5322 122 34123	1nF	10%	50V	
2167	4822 122 33496	100nF	10%	63V	
2169	5322 122 31863	330pF	5%	50V	
2171	5322 126 10223	4,7nF	10%	63V	
2180	5322 122 31946	27pF	5%	50V	
2181	4822 122 32139	12pF	5%	63V	
2182	4822 122 33496	100nF	10%	63V	
2183	4822 122 33496	100nF	10%	63V	
2185	4822 122 33496	100nF	10%	63V	
2186	5322 122 34123	1nF	10%	50V	

CD BOARD

MISCELLANEOUS

1810	4822 276 13503	SWITCH, TRAY

DIODES

6857	4822 130 30621	1N4148
6881	4822 130 31981	BZX79-C3V9
6883	4822 130 31981	BZX79-C3V9

TRANSISTORS

7820	4822 130 41344	BC337-40
7856	5322 130 60123	BC807-40 (CHIP)
7872	5322 130 42136	BC848C (CHIP)
7881	5322 130 41983	BC858B (CHIP)
7883	4822 130 44197	BC558B
7884	4822 130 41344	BC337-40
7885	4822 130 41344	BC337-40

INTEGRATED CIRCUITS

7800	5322 209 11517	PC74HCU04T
7850	4822 209 31064	TDA1301T/N1
7851	4822 209 32852	TDA7073A/N2
7852	4822 209 32852	TDA7073A/N2
7855	4822 209 31519	TDA7072A
7860	4822 209 33339	SAA7345GP/M5
7871	4822 209 32196	TDA1311AT/N2
7886	4822 272 10371	7805 (Voltage regulator)
7890	4822 209 33337	MC68HC05C8FB

COILS

5860	4822 543 00376	QUARTZ 16,934 MHz
5890	4822 242 72527	CERAMIC RESONATOR 4.0 MHz

RESISTORS

3760	4822 116 52296	6k8	5%	0,5W
3761	4822 116 52283	4k7	5%	0,5W
3801	4822 116 52224	470R	5%	0,5W
3815	4822 050 11002	1k	5%	0,2W
3818	4822 116 52233	10k	5%	0,5W
3820	4822 050 11002	1k	5%	0,2W
3825	4822 116 52233	10k	5%	0,5W
3826	4822 116 52233	10k	5%	0,5W
3827	4822 116 52233	10k	5%	0,5W
3828	4822 116 52233	10k	5%	0,5W
3829	4822 116 52233	10k	5%	0,5W
3830	4822 116 52233	10k	5%	0,5W
3832	4822 116 52175	100R	5%	0,5W
3833	4822 116 52233	10k	5%	0,5W
3835	4822 116 52264	27k	5%	0,5W
3836	4822 116 52207	1k2	5%	0,5W
3837	4822 116 52296	6k8	5%	0,5W
3838	4822 116 52257	22k	5%	0,5W
3839	4822 116 52207	1k2	5%	0,5W
3840	4822 116 52296	6k8	5%	0,5W
3841	4822 116 52297	68k	5%	0,5W
3843	4822 116 52277	39k	5%	0,16W
3844	4822 050 11002	1k	5%	0,2W
3845	4822 116 52277	39k	5%	0,16W
3846	4822 050 11002	1k	5%	0,2W

RESISTORS

3847	4822 116 40227	4R7	PTC	
3848	4822 050 11002	1k	5%	0,2W
3849	4822 052 10338	3R3		NFR25
3850	4822 050 11002	1k	5%	0,2W
3851	4822 116 52264	27k	5%	0,5W
3852	4822 050 11002	1k	5%	0,2W
3853	4822 116 52296	6k8	5%	0,5W
3857	4822 116 52215	220R	5%	0,16W
3858	4822 116 52215	220R	5%	0,16W
3860	4822 116 52175	100R	5%	0,5W
3871	4822 116 52186	22R	5%	0,5W
3876	4822 116 52284	47k	5%	0,5W
3877	4822 116 52284	47k	5%	0,5W
3880	4822 050 11002	1k	5%	0,2W
3881	4822 050 11002	1k	5%	0,2W
3886	4822 116 52226	560R	5%	0,5W
3889	4822 116 52233	10k	5%	0,5W
3891	4822 116 52186	22R	5%	0,5W

CHIP RESISTORS

3750	4822 051 20154	150k	5%	0,1W
3751	4822 051 20331	330R	5%	0,1W
3752	4822 051 20221	220R	5%	0,1W
3754	4822 051 20105	1M	5%	0,1W
3755	4822 117 10833	10k	1%	0,1W
3762	4822 051 20221	220R	5%	0,1W
3763	4822 051 20221	220R	5%	0,1W
3764	4822 051 20221	220R	5%	0,1W
3785	4822 117 10833	10k	1%	0,1W
3790	4822 117 10833	10k	1%	0,1W
3791	4822 117 10833	10k	1%	0,1W
3792	4822 117 10833	10k	1%	0,1W
3793	4822 117 10833	10k	1%	0,1W
3795	4822 117 10833	10k	1%	0,1W
3802	4822 051 10102	1k	2%	0,25W
3803	4822 051 20335	3M3	5%	0,1W
3804	4822 051 20682	6k8	5%	0,1W
3805	4822 051 20223	22k	5%	0,1W
3806	4822 117 10833	10k	1%	0,1W
3807	4822 117 10833	10k	1%	0,1W
3808	4822 117 10834	47k	1%	0,1W
3809	4822 051 20332	3k3	5%	0,1W
3810	4822 051 20332	3k3	5%	0,1W
3811	4822 051 20223	22k	5%	0,1W
3812	4822 051 20332	3k3	5%	0,1W
3813	4822 051 20332	3k3	5%	0,1W
3814	4822 051 20332	3k3	5%	0,1W
3821	4822 051 20124	120k	5%	0,1W
3822	4822 051 20563	56k	5%	0,1W
3823	4822 051 20331	330R	5%	0,1W
3824	4822 051 20124	120k	5%	0,1W
3831	4822 051 20223	22k	5%	0,1W
3834	4822 051 20229	22R	5%	0,1W
3842	4822 051 20182	1k8	5%	0,1W
3854	4822 117 10833	10k	1%	0,1W
3855	4822 051 20224	220k	5%	0,1W
3856	4822 051 20223	22k	5%	0,1W
3862	4822 051 20105	1M	5%	0,1W
3863	4822 051 10102	1k	2%	0,25W
3864	4822 051 10102	1k	2%	0,25W
3865	4822 051 10102	1k	2%	0,25W
3866	4822 051 20331	330R	5%	0,1W
3867	4822 051 20472	4k7	5%	0,1W

CHIP RESISTORS

3885	4822 051 20222	2k2	2%	0,25W
3887	4822 051 20473	47k	5%	0,1W
3890	4822 051 10102	1k	2%	0,25W
3892	4822 117 10833	10k	1%	0,1W
3893	4822 117 10833	10k	1%	0,1W
3894	4822 117 10833	10k	1%	0,1W
3895	4822 117 10833	10k	1%	0,1W
3896	4822 117 10833	10k	1%	0,1W
3899	4822 117 10833	10k	1%	0,1W
4801	4822 051 10008	CHIP JUMPER 1206		
4802	4822 051 10008	CHIP JUMPER 1206		
4805	4822 051 10008	CHIP JUMPER 1206		
4806	4822 051 10008	CHIP JUMPER 1206		
4808	4822 051 10008	CHIP JUMPER 1206		
4809	4822 051 10008	CHIP JUMPER 1206		
4810	4822 051 10008	CHIP JUMPER 1206		
4811	4822 051 10008	CHIP JUMPER 1206		
4812	4822 051 10008	CHIP JUMPER 1206		
4813	4822 051 10008	CHIP JUMPER 1206		
4814	4822 051 10008	CHIP JUMPER 1206		
4815	4822 051 10008	CHIP JUMPER 1206		
4816	4822 051 10008	CHIP JUMPER 1206		
4820	4822 051 10008	CHIP JUMPER 1206		
4850	4822 051 10008	CHIP JUMPER 1206		
4851	4822 051 10008	CHIP JUMPER 1206		

CAPACITORS

2752	5322 122 32531	100pF	5%	50V
2753	5322 122 32531	100pF	5%	50V
2762	5322 122 32658	22pF	5%	50V
2763	5322 122 32658	22pF	5%	50V
2764	5322 122 32658	22pF	5%	50V
2769	4822 124 80115	4,7µF	20%	25V
2770	4822 124 80115	4,7µF	20%	25V
2814	4822 126 12339	2,2nF	10%	16V
2818	4822 124 80483	47µF	20%	6,3V
2831	4822 124 80483	47µF	20%	6,3V
2833	4822 124 80483	47µF	20%	6,3V
2836	4822 126 13098	5,6nF	20%	16V
2837	4822 122 10459	560pF	10%	50V
2839	4822 121 51387	10nF	20%	16V
2840	4822 122 10576	1,8nF	10%	16V
2843	5322 124 41948	0,47µF	20%	50V
2847	5322 124 41942	33µF	20%	25V
2848	4822 124 80483	47µF	20%	6,3V
2849	4822 124 40433	47µF	20%	25V
2850	4822 124 80115	4,7µF	20%	25V

CAPACITORS

2851	4822 121 51387	10nF	20%	16V
2853	5322 121 42386	100nF	5%	63V
2856	5322 121 42661	330nF	5%	63V
2860	4822 124 40177	47µF	20%	10V
2864	4822 124 42433	330µF	20%	6,3V
2866	4822 124 42433	330µF	20%	6,3V
2892	4822 124 11423	4,7µF	20%	

CHIP CAPACITORS

2802	4822 122 33064	330nF	20%	25V
2803	4822 122 33515	82pF	5%	50V
2804	4822 122 33515	82pF	5%	50V
2805	5322 122 33538	150pF	5%	63V
2806	5322 122 31946	27pF	5%	50V
2807	5322 122 32452	47pF	5%	50V
2808	5322 122 32452	47pF	5%	50V
2809	5322 122 32452	47pF	5%	50V
2810	5322 122 32481	15pF	5%	50V
2811	5322 122 33538	150pF	5%	63V
2820	5322 116 80853	560pF	5%	63V
2821	4822 126 10326	180pF	5%	
2822	5322 122 31863	330pF	5%	50V
2823	5322 122 31865	1,5nF	10%	63V
2824	4822 126 10326	180pF	5%	
2825	4822 122 33575	220pF	5%	50V
2826	4822 122 33575	220pF	5%	50V
2827	4822 122 33575	220pF	5%	50V
2828	4822 122 33575	220pF	5%	50V
2829	4822 122 33575	220pF	5%	50V
2830	4822 122 33575	220pF	5%	50V
2834	5322 122 32654	22nF	10%	63V
2838	4822 122 33496	100nF	10%	63V
2852	4822 122 33496	100nF	10%	63V
2854	5322 122 32531	100pF	5%	50V
2857	5322 122 32452	47pF	5%	50V
2858	5322 122 32654	22nF	10%	63V
2859	4822 122 33496	100nF	10%	63V
2861	5322 122 32658	22pF	20%	50V
2862	5322 122 32661	56pF	20%	50V
2867	4822 122 33496	100nF	10%	63V
2876	5322 122 34123	1nF	10%	50V
2877	5322 122 34123	1nF	10%	50V
2878	5322 122 32531	100pF	5%	50V
2879	5322 122 32531	100pF	5%	50V
2881	4822 122 33496	100nF	10%	63V
2883	4822 122 33064	330nF	20%	25V
2891	4822 122 33496	100nF	10%	63V
2893	5322 122 32531	100pF	5%	50V
2894	5322 122 32531	100pF	5%	50V
2895	5322 122 32531	100pF	5%	50V
2897	5322 122 32838	82nF	5%	50V

Service
Service
Service

66 990 A11

For details and exploded view see
Service Manual of tape transport RN/RR, RDN/RDR
General Documentation 4822 725 23763

Service Manual

(GB) MAINTENANCE

It is recommended to clean the recorder after approx. 500 hours of operation.

To be cleaned with alcohol or spirit

- Erase head
- Recording/playback head
- Capstan
- Pressure roller

(F) ENTRETIEN

L'appareil devra être nettoyé après env. 500 heures de marche aux points les plus importants.

Nettoyer les éléments suivants à l'alcool ou à l'alcool à brûler:

- Tête effacement
- Tête enregistrement/reproduction
- Cabestan
- Galet presseur

(NL) ONDERHOUD

Aanbevolen wordt het apparaat na ca. 500 bedrijfsuren schoon te maken

Schoonmaken met alcohol of spiritus:

- Wiskop
- Opneem-/weergeefkop
- Toonas
- Drukrol

(D) WARTUNG

Es empfiehlt sich, das Gerät nach ca. 500 Betriebsstunden zu reinigen

Reinigen mit Alkohol oder Spiritus:

- Löschkopf
- Aufnahme/Wiedergabe-Kopf
- Tonachse
- Andruckrolle

(I) MANUTENZIONE

E consigliabile pulire l'apparecchio dopo circa 500 ore di funzionamento ai punti principali.

Pulire con alcool

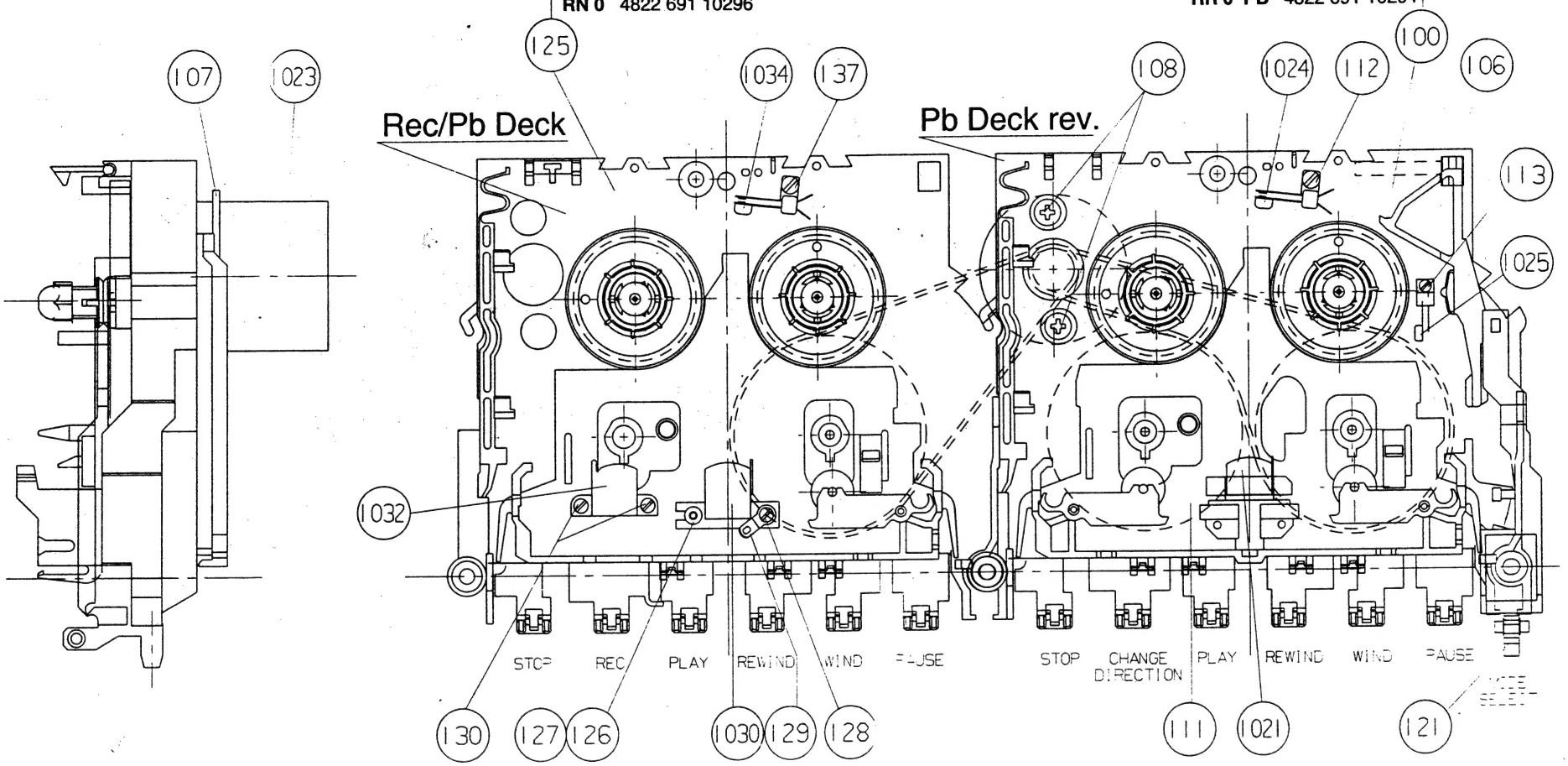
- Testina di cancellazione
- Testina di registrazione/riproduzione
- Capstan
- Rullo preminastro

Published by Consumer Electronics Printed in The Netherlands

PHILIPS

STRIPPED VERSION WITHOUT NOTED ITEMS IS CALLED AND HANDLED AS

RN 0 4822 691 10296 — **RR 0 PB** 4822 691 10294



100	4822 691 10294	RR0 Pb assy
106	4822 403 70385	lever, antiselect
107	4822 529 10254	damper,motor
108	4822 502 11866	screw,motor
125	4822 691 10296	RN 0 assy
111	4822 492 70393	headclip
121	4822 403 53876	lever, mode select
126	4822 492 51473	spring,azimuth
1021	4822 249 30156	head, reverse
1023	4822 361 21718	motor, MSI-5U9LWDR
1024	4822 271 30596	switch, indication play
1025	4822 278 90624	switch, indication direction
1030	4822 249 10397	head, Rec/Pb
1032	4822 249 20072	head,erase
1034	4822 271 30596	switch, indication play

Only those parts of which a service code number is stated are service parts.

General parts

pos. numbers refer to exploded view in General Documentation 4822 725 23763

7/67	4822 520 10718	bearing plate
38/61	4822 520 40134	ball, bearing
40	4822 402 10037	lever, pinch roller right
41/76	4822 528 70646	pinch roller
43	4822 404 10853	slide, key lock
58	4822 358 30929	drive belt RN0 S (long)
73	4822 402 10038	lever, pinch roller left
74	4822 535 92992	tapeguide right
75	4822 535 92993	tapeguide left
98	4822 358 30928	drive belt RN0 D (short)
402	4822 528 20676	take-up clutch assy